

**RESIDENTIAL PROPERTIES
27, 29 BALSAM STREET AND
247 – 267 ROCHESTER STREET
OTTAWA, ONTARIO
K1R 7M9**

**Phase I
Environmental Site Assessment**

PREPARED FOR:

Carl Madigan
3N Group Holdings Inc.
1769 St Laurent Boulevard
Ottawa, Ontario
K1G 3V4

Rubicon Job Number • R63048.1

Report Date • February 9, 2022



“...Environmental Solutions.”

Rubicon Environmental (2008) Inc.

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February 9, 2022

Carl Madigan
3N Group Holdings Inc.
1769 St Laurent Boulevard
Ottawa, Ontario

Attention: Carl Madigan

R63048.1 - PHASE I ENVIRONMENTAL SITE ASSESSMENT
Residential Properties: 27, 29 Balsam Street And 247 - 267 Rochester Street,
Ottawa, ON

Dear Client,

Enclosed please find the results for the above-mentioned investigation conducted on your behalf. Please feel free to contact me at 519-924-0003 if you require any additional information.

Sincerely,

RUBICON ENVIRONMENTAL (2008) INC.

Paul Rew, P. Eng., QP

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	2
2.0	INTRODUCTION	4
3.0	SCOPE OF WORK	6
5.0	INTERVIEWS	24
6.0	SITE RECONNAISSANCE	25
7.0	REVIEW and EVALUATION of INFORMATION	27
8.0	CONCLUSIONS	39
9.0	REFERENCES	41
10.0	LIMITATIONS	42

List of Figures and Appendices

FIGURE 1 : SITE CONCEPTUAL MODEL
 FIGURE 2 : SITE PLAN
 FIGURE 3 : STUDY AREA PCAS
 FIGURE 4 : SITE APECS

WELL SURVEY FIGURE 1: SITE LOCATION
 WELL SURVEY FIGURE 2: WELL SURVEY
 WELL SURVEY FIGURE 3: WELL HEAD PROTECTION AREA
 WELL SURVEY FIGURE 4: INTAKE PROTECTION ZONES
 WELL SURVEY FIGURE 5: AREAS OF HIGH AQUIFER VULNERABILITY
 WELL SURVEY FIGURE 6: OAK RIDGES MORaine

APPENDIX 1 – SITE PHOTOGRAPHS
 APPENDIX 2 – TITLE INFORMATION
 APPENDIX 3 – AERIAL PHOTOGRAPHS
 APPENDIX 4 – FIRE INSURANCE PLANS
 APPENDIX 5 – PREVIOUS REVIEWED REPORTS
 APPENDIX 6 – GEOLOGICAL / TOPOGRAPHICS MAPS
 APPENDIX 7 – ERIS REPORT / CITY DIRECTORY
 APPENDIX 8 – WELL RECORDS
 APPENDIX 9 – QUALIFICATIONS OF ASSESSOR



1.0 EXECUTIVE SUMMARY

The Phase I Environmental Site Assessment was completed at the subject property in December of 2021. This section of the report summarizes the findings of this investigation:

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan on behalf of 3N Group Holdings Inc. to undertake a Phase I Environmental Site Assessment (ESA) at the residential properties located at 27, 29 Balsam Street, 247 – 267 Rochester Street in Ottawa, Ontario in order to determine if the soils and groundwater on site are suitable for Residential Land Use. The Phase I ESA investigation was completed on-site to identify any Potentially Contaminating Activities (PCA) that may have occurred in the past or present on the Phase One Property or adjacent properties and to identify any Areas of Potential Environmental Concerns (APEC) on the Phase One Property.

This Phase I ESA is prepared in anticipation of filing a Record of Site Condition with the Ontario Ministry of the Environment - Brownfield's Environmental Site Registry, for the purpose of changing the land use to residential land use. The Phase I Environmental Site Assessment was completed in accordance with Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.

The ERIS search identified two (2) records associated with the subject property: two (2) Water Well Information Systems.

The ERIS search on the surrounding lands (0.25 km radius) showed the properties surrounding the subject site had the following two hundred and sixteen (216) records: three (3) Automobile Wrecking & Supplies; four (4) Borehole; thirteen (13) Certificates of Approval; six (6) Delisted Fuel Tanks; four (4) Environmental Activity and Sector Registry; two (2) Environmental Registry; twenty-seven (27) Environmental Compliance Approval; fifty-two (52) Eris Historical Searches; three (3) Fuel Storage Tanks; forty-eight (48) Ontario Regulation 347 Waste Generators Summary; one (1) Fuel Oil Spills and Leaks; nine (9) Pesticide Registers; one (1) Pipeline Incidents; two (2) private and Retail Fuel Storage Tanks; one (1) Permit to Take Water; two (2) Record of Site Conditions; one (1) Retail Fuel Storage Tanks; five (5) Scott's Manufacturing Directory; ten (10) Ontario Spills and twenty-two (22) Water Well Information Systems.

Based on the evaluation of the two hundred and sixteen (216) records reviewed, as part of the Phase I ESA, it was determined that the properties in close proximity to the Phase I property were identified as having non-contributing potentially contaminating activity (PCA), as defined by Column A of Table 2 of Schedule D of O. Reg. 153/04 for the following reasons: PCAs were found to be at distances and / or buffers and / or side gradient or down gradient from the subject property. Due to these reasons the PCAs identified in the ERIS records are considered low risk and not an APEC.

The overall conclusion of the Phase One ESA is that there are three (3) APECs on the subject property based on the following three (3) contributing PCAs and twenty (20) non-contributing PCAs, which were identified based on the overall history and uses of the subject property and surrounding area. Out of the three (3) contributing PCAs all were found to have existed on or within 30 m the subject property, therefore they are considered APECs.



APEC #1 is due to the historic use of dry-cleaning equipment from 1920 to 1926 and 1965 to 1982. APEC #1 is considered to encompass the southwest corner of the subject property, where the buildings of 263 & 267 Rochester Street were located.

APEC #2 is due to the historical oil corporation that existed at 263 Rochester Street. APEC #2 is considered to encompass the area where the building of 263 Rochester Street was located.

APEC #3 is due to the unknown quality of the fill material suspected to be on the subject property. The APEC #3 is considered to encompass the perimeter of the subject property.

The five (5) contaminants of potential concern were identified at the Site with respect to the three (3) areas of potential environmental concern: Petroleum Hydrocarbons (PHC F₁-F₄), Volatile organic compounds (VOCs), BTEX (Benzene, Toluene, Ethylbenzene and Xylene), PAHs (Polycyclic aromatic hydrocarbons), and Metals.

Based on the findings of the Phase I ESA completed by Rubicon Environmental (2008) Inc., it is our opinion that a Phase II Environmental Site Assessment is required on the subject property to fully assess the quality of the subsurface soil and groundwater conditions within the identified areas of potential environmental concern before a record of site condition can be submitted to the Ministry of the Environment.



2.0 INTRODUCTION

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan on behalf of 3N Group Holdings Inc. to undertake a Phase I Environmental Site Assessment (ESA) at the residential properties located at 27 & 29 Balsam Street, 247 – 267 Rochester Street in Ottawa, Ontario in order to determine if the soils and groundwater on site are suitable for Residential Land Use. The Phase I ESA investigation was completed on-site to identify any Potentially Contaminating Activities (PCA) that may have occurred in the past or present on the Phase One Property or adjacent properties and to identify any Areas of Potential Environmental Concerns (APEC) on the Phase One Property.

This Phase I ESA is prepared in anticipation of filing a Record of Site Condition with the Ontario Ministry of the Environment - Brownfield's Environmental Site Registry, for the purpose of changing the land use to residential land use. The Phase I Environmental Site Assessment was completed in accordance with Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.

At the time of this investigation, the Phase I property is currently developed for residential land use, with no current site buildings and four (4) basement foundations left over from demolition. Based on the information gathered during this investigation the subject property was used for residential purposes since its initial development in 1855. From the city directory search, it was determined that most of the properties operated as commercial from the mid-1990s to early 2000s. It appears that the subject property switched back to residential use in 2011. The proposed development includes either a nine-storey apartment building or twenty-three townhouses.

The subject property is located on the northeast corner of the intersection between Balsam Street and Rochester Street in Ottawa/ ON. The total the area of the RSC site encompasses approximately 2,000.0 m². Refer to Figure 1 for the site location and Figure 2 for the Current Site Plan.

The Subject property encompasses the following parcels of land with the municipal address' as followed:

- o 27 Balsam Street, Ottawa, Ontario.
- o 29 Balsam Street, Ottawa, Ontario.
- o 245 Balsam Street, Ottawa, Ontario.
- o 247 Balsam Street, Ottawa, Ontario.
- o 249 Rochester Street, Ottawa, Ontario.
- o 261 Rochester Street, Ottawa, Ontario.
- o 263 Rochester Street, Ottawa, Ontario.
- o 265 Rochester Street, Ottawa, Ontario.
- o 267 Rochester Street, Ottawa, Ontario.

The respectful legal property descriptions are as followed:



27 Balsam Street: PT LT 259, PL 16 , BEING THE W1/2, S/T N329529 ; OTTAWA/NEPEAN
Property Identification Number: 04108-0280 (LT)

245/247 Rochester Street: LT 210, PL 14 ; OTTAWA/NEPEAN
Property Identification Number: 04108-0263 (LT)

249 Rochester Street: PT LT 260, PL 16 , PART 1 , 4R1493 , T/W N631371 ; OTTAWA/NEPEAN
Property Identification Number: 04108-0281 (LT)

261 Rochester Street: PT LT 260, PL 16 , PART 2 , 4R1493 ; OTTAWA/NEPEAN
Property Identification Number: 04108-0282 (LT)

265/267 Rochester Street & 29 Balsam Street: PT LT 261, PL 16 , AS IN NS1464 ;
OTTAWA/NEPEAN
Property Identification Number: 04108-0283 (LT)

263 Rochester Street & 29 Balsam Street: LT 261, PL 16 , EXCEPT NS1464 ;
OTTAWA/NEPEAN
Property Identification Number: 04108-0284 (LT)

Contact information

Owner: Carl Madigan
Company: 3N Group Holdings Inc.
Address: 1769 St Laurent Boulevard
Email: carlmadigan@ymail.com



3.0 SCOPE OF WORK

The scope of work was to complete a Phase I Environmental Site Assessment in accordance with Ontario Regulation 153/04, as amended by Ontario Regulation 511/09, in anticipation of filing a Record of Site Condition with the Ontario Ministry of the Environment - Brownfield's Environmental Site Registry, for the purpose of residential change of land use.

The Phase I ESA investigation was conducted on-site to identify:

- any Potentially Containing Activities (PCA) that may have occurred in the past or present on the Phase One Property or adjacent properties that may represent an environmental concern; and,
- Areas of Potential Environmental Concerns (APEC) on the Phase One Property directly related to identified PCA's.

To achieve these objectives the following tasks were completed:

- collecting and evaluating existing information pertaining to the phase one property through the review of various pertinent records, both present and historical;
- reviewing and evaluating any previous environmental investigations and comparing previous analytical results to the current applicable MOE Ontario Regulation 511/09 residential standards;
- conducting a visual examination of the property and existing building along with the surrounding area to identify and/or investigate any potential environmental concerns;
- obtaining an Environmental Risk Information Services Ltd. (ERIS) report for the Phase I ESA property and study area (250m radius);
- conducting interviews with individuals who may be knowledgeable about the subject property and its adjacent properties, as well as contacting representatives of various government agencies; and,
- preparing a Phase I ESA engineering report in accordance with Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.



4.0 RECORD REVIEW

a) General

(i) **Phase One Study Area**

The Phase One study area included the subject property and all properties within 250 meters from the nearest point on a boundary of the phase one property. Refer to Figure 1.

(ii) **First Developed Use**

Based on the information gathered during this investigation the subject property was used for residential purposes since its initial development in 1855. From the city directory search, it was determined that most of the properties operated as commercial from the mid-1990s to early 2000s. It appears that the subject property switched to residential use in 2011.

(iii) **Fire Insurance Plans**

A total of thirty-three (33) Fire Insurance Plans from the years 1895, 1901, 1912, 1922, 1948, and 1963 were available from the study area.

Based on Rubicon's evaluation of the Fire Insurance Plans available, there were no historic onsite or offsite (of close proximity) Potential Contaminating Activities (PCAs) that would represent an Area of Potential Environmental Concern (APEC) on the Phase I property. FIPs were obtained through OPTA Information Intelligence. Refer to Appendix 4 for FIPs.

(iv) **Chain of Title**

27 Balsam Street **PIN** 04108-0280 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 259, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing Unknown	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2007 - 2012	Fanto At 29 Balsam Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2006 – 2007	Kennedy, Blaine Ranson			
2004 – 2006	Meade, Clark Edward Chichirau, Alexandru			
2002 – 2004	Li, Yafei Guo, Fang			No City Directories, Aerial Photographs or FIPs were located during this time period.



1988 – 2002	Grieco, Antonio Grieco, Vincenza			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1986 - 1988	Griceo, Antonio			
1982 - 1986	Vasconcelos, Manuel Vasconcelos, Grasiomilde			
1960 - 1982	Disipio, Giuseppe Disipio, Concetta	Church	Communal	Fire Insurance Maps obtained show the site to function as a Slavic Pentecostal Church in 1963.
1949 - 1960	Dan Defalco Teresa Defalco	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1948 - 1949	Terrance Hunter Margaret Hunter			
1945 - 1948	Bertrude Carlborg			
1945 - 1945	Joseph Abraham			
1896 - 1945	Thomas J. Beaton			
1893 - 1896	John Hodgins			
1861 - 1893	Sarah Lowrie			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester			The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown			

245/247 Rochester Street **PIN: 04108-0263 (LT)**

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential Housing	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2011 – 2012	249 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1994 – 2011	Phung, Bao Thien	245 Rochester Street: Don's Varsity Store (1981 – 1992) 247 Rochester Street: Deborah's Hair Design (1992 – 1997)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1962 – 1994	Chevrier, Jacqueline Chevrier, Donald	245 Rochester Street: Don's Varsity Store (1981 – 1992) Obe Employees Assoc (1976) 247 Rochester Street: Deborah's Hair Design		



		(1992 – 1997) Ron's Take Out (1987) Kary Lyne Take Out (1971 – 1976) Storage (1965)		
1925 – 1962	Harry Chevrier	245 Rochester Street: Don's Confectionery (1960) 247 Rochester Street: Storage (1955)		
1916 – 1925	Deni Bardecci	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1905 - 1916	Loui Bardecci			
1890 – 1905	Thomas Rock			
1859 - 1890	Martin Kealey			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1859	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	

249 Rochester Street **PIN** 04108-0281 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2010 – 2012	249 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1992 - 2010	Vietnamese Canadian Center			
1992 – 1992	Vietnamese Canadian Federation	Unknown	Unknown	No City Directories, Aerial Photographs or FIPs were located during this time period.
1986 – 1992	Canadian Federation of Vietnamese Associations	Vietnamese Canadian Federation (1992-2007)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1975 – 1986	Grieco, Antonio Grieco, Vincenza	Café Delight Emigranti (1975 – 1987)		
1966 – 1975	Giorgio Musca, Lucia Musca	George's Fruit Store (1960 – 1971)		
1952 – 1966	Catherine Pavia Rosario Pavia	George's Fruit Store (1960 – 1971)		
1921 – 1952	Giuseppe Constantine	Mayfair Bakery (1935 Capital Photo Engraving(1950) St Agnes School Annex (1920)	Commercial / Communal	The City Directory search shows the address to be used for commercial and communal purposes during this time.



1912 – 1921	John Kendrick	St Agnes School Annex (1920)	Communal	The City Directory search shows the address to be used for communal purposes during this time.
1912 - 1912	Maurice Brennan	Residential	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential housing is the suspected use of the subject property.
1905 – 1912	Alexander Jacques			
1897 - 1905	David A. Johnston			
1891 – 1897	Henry J. Burton			
1861 - 1891	Eugene Provincalle			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	

261 Rochester Street PIN 04108-0282 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Uhotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2009 - 2012	261 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2005 - 2009	Goss, Corey			
2002 - 2005	Nguyen, Hanh Huu Nhan, Dung Thuy			
2001 – 2002	Mancini, Tony Mcelheran, Brent	Anti-Stress (01/02)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1999 - 2001	Mancini, Tony	Tele-Litho Inc. (1992 – 2001)	Commercial	
1988 – 1999	Andrew Tabak	Tele-Litho Inc (1992 – 2001)	Commercial	
1987 - 1988	Rachel Fdgel Rose Indig Malcolm Glube			The City Directory Search shows the address to be residential or not listed during this time. Residential Hosuing is the suspected use of the subject property.
1984 – 1987	Rita Persaud			
1966 – 1984	George Nusca Lucia Nusca			
1952 - 1966	Catherine Pavia Rosario Pavia			
1921 - 1952	Giuseppe Constantine			



1912 – 1921	John Kendrick	Residential Housing	Residential	Lot 260, Block 126, East Rochester Street, Plan 16
1912 - 1912	Maurice Brennan			
1905 – 1912	Alexander Jacques			
1897 - 1905	David A. Johnston			
1891 – 1897	Henry J. Burton			
1861 - 1891	Eugene Provincalle			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	

29 Balsam Street, 265,267 Rochester Street *PIN* 04108-0283 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2006 - 2012	Fanto at 29 Balsam Inc.	Fanto Group	Residential	The City Directory search shows the address to be used under the name Fanto Group, suspected residential housing.
1978 – 2006	Oliviero, Giacomo	Residential Housing (1987 – Present) Domenic Paints (1960) Minnelli's Dry Cleaning (1965 – 1982)	Commercial	The City Directory Search shows the address to be commercial and residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1975 - 1978	Oliviero, Giacomo Oliviero, Bruno			
1966 - 1975	Margaret Misericordia			
1962 – 1966	Maria Minnelli			
1960 - 1962	Abraham Leonie Lucy Leonie	Residential Housing	Residential	Lot 261, Block 126, East Rochester Street, Plan 16
1928 - 1960	Charles Leonie Helen Leonie			
1927 – 1928	Elizabeth M. Dulchen			
1861 - 1927	Rose Monk			



Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	

263 Rochester Street **PIN** 04108-0284 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2011 - 2012	Fanto at 29 Balsam Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2004 - 2011	City of Ottawa	Sleiman Oil Corporation (06-07)	Commercial / Residential	Land Title records show City of Ottawa obtained the land after declaration of tax arrears in 2002.
1915 – 2004	Currell Clara	Oliviero Jack & Sons Painting & Decorating Inc (1996/97) Midtown Convenience Store (1992) Residential Housing (1930 – 1992) Chinese Laundry (1920 – 1926)	Commercial / Residential	The City Directory Search shows the address to be used for commercial purposes as well as residential or not listed during this time.
1907 – 1915	Clifton A. Douglas David M. Finnie Aida Segalowitz	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1897 – 1907	Maria Donjon			
1895 – 1897	Sylvanie J. Major			
1861 - 1895	Pierre J. Bozin			Lot 261, Block 126, East Rochester Street, Plan 16
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	



(v) ***Environmental Reports and other documentation***

Rubicon reviewed three (3) previous environmental investigation completed on the subject property. Refer to Appendix 5.

1. *Phase II - Environmental Site Assessment 247-267 Rochester Street and 27 Balsam Street Ottawa, Ontario.* Dated March 2011. Completed by Paterson Group Inc.
2. *Supplementary Assessment of Soil Vapour Rochester Street Right of Way, Ottawa, Ontario.* Dated December 16, 2019. Completed by Malroz Engineering Inc.
3. *Air Quality Assessment Residential Properties 246, 250 & 254 Rochester Street, Ottawa Ontario K1R 7N1.* Dated July 28, 2021. Completed by Rubicon Environmental (2008) Inc.

The following is a summary of their findings / conclusions:

1. *Phase II - Environmental Site Assessment 247-267 Rochester Street and 27 Balsam Street Ottawa, Ontario.* Dated March 2011. Completed by Paterson Group Inc.
 - A Phase II Environmental Site Assessment was conducted at the properties located at 245, 247, 249, 261, 263-267 Rochester Street and 27 Balsam Street, Ottawa Ontario. The purpose of the investigation was to assess potential VOC contamination from a former dry cleaners located at 267 Rochester Street. The Phase II Investigation was conducted over the period of September 2009 to November 2010, which consisted of ten (10) boreholes, instrumented with groundwater monitoring wells on the subject site.
 - The groundwater levels were measured on November 2, 2009 and were found to be present at depths ranging from 1.5 and 2.8 m below the existing grade, with the exception of BH6, which was cored 10.6 m into the bedrock and had a groundwater level approximately 9.0 m below surface grade. Groundwater levels were resampled on November 1, 2010 and were found to be present at depths ranging from 3.3 to 4.9 m below surface grade.
 - Patterson Group collected a total of fourteen (14) groundwater samples obtained from the ten (10) monitoring wells and were submitted for testing of volatile organic compounds (VOCs). The analytical test results identified the presence of a number of VOC parameters from boreholes BH1, BH3, BH8 & BH9 that exceed the MOE Table 1 Standards. The final groundwater samples from BH1, BH3, BH8 and BH9 displayed exceedances for one or more VOC concentrations comparing to MOE Table 1 Standards. The rest of the groundwater samples taken from the other boreholes do not indicate any presence of VOC concentrations in excess of the MOE Table 1 Standards, with the exception of BH2 with an exceedance for Chloroform. Patterson Group states that "Chloroform was detected in most of the initial groundwater samples and is expected to be present as a result of the use of city water used as core water during the drilling program. The observed concentrations of chloroform were less than that which are typically found in municipal tap water."



- Patterson Group concluded that the site had been impacted by former on-site dry-cleaning operations. The VOC impacted groundwater appears to rely in the southwest area of the subject property. Tetrachloroethylene (PCE) and trichloroethylene (TCE) were the identified contaminants of concern. The former dry-cleaning operation at 267 Rochester Street is suspected to be the source of contamination.
 - Patterson Group recommends “that a remediation program be conducted on the subject property to clean up the VOC contaminated groundwater.
2. *Supplementary Assessment of Soil Vapour Rochester Street Right of Way, Ottawa, Ontario*. Dated December 16, 2019. Completed by Malroz Engineering Inc.
- Malroz Engineering was retained by the City of Ottawa in order to conduct a soil vapour assessment within the Rochester Street right of way (ROW), between the intersection of Balsam Street and Willow Street in Ottawa, Ontario.
 - Malroz Engineering states that an inferred chlorinated solvent contaminant plume along the Rochester Street ROW was identified in a letter dated May 12, 2015. The source of the contamination appears to be the historic dry-cleaning operations. Data suggests that a groundwater contaminant plume comprising of toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform has migrated into the Rochester and Balsam Street ROWs.
 - Malroz conducted a preliminary soil vapour assessment in May 2018 which is considered to be Event #1. Four (4) soil vapour probes (SVPs) were installed along the Rochester Street ROW and soil vapour samples were collected from each probe. Results from the probes indicated measurable concentrations of toluene, chloroform, methylene chloride, PCE and TCE. However, reported concentrations of these contaminants were below calculated maximum acceptable vapour intrusion target levels (VITLs) for residential property use. Considering the variability of soil vapour data, additional sampling was recommended to confirm the results from the preliminary soil vapour assessment.”
 - Malroz completed two additional soil vapour sampling events at the subject site, once in April 2019, and once in July 2019. Results from April 2019 “indicated that measurable concentrations of PCE were reported at each of the SVPs and were below VITLs. However, concentrations of PCE at SVP102 were only slightly below (3-12 µg/m³) the corresponding VITL.” Results from July 2019 “indicated that concentrations of PCE at SVP102 and SVP103 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP104, however, the measured concentrations met the VITL. Given the exceedances of VITLs at SVP102 and SVP103 during July 2019, an additional sampling event was recommended in the fall of 2019 to confirm the results and to further assess seasonal and temporal variability.”
 - Malroz recommended the following: that sub-slab vapour probes be installed in select buildings adjacent to the subject site, indoor air samples be taken within select residential buildings adjacent to the subject site, and that the groundwater impacts should be laterally and vertically delineated to evaluate the extent, magnitude and stability of the plume.



3. *Air Quality Assessment Residential Properties 246, 250 & 254 Rochester Street, Ottawa Ontario K1R 7N1*. Dated July 28, 2021. Completed by Rubicon Environmental (2008) Inc.
 - Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan to undertake an Air Quality Assessment at the properties located at 246, 250 & 254 Rochester Street, Ottawa Ontario. The air quality monitoring consisted of an initial meeting with the building management, an air sampling program to establish base line data with respect to Total Volatile Organic Compounds (TVOCs), as well as a provision of a summary report to document the findings.
 - The purpose of the air sampling program was to document the levels of basic air quality parameters in the site building at the time and place of the testing, as well as to assess the presence of elevated soil vapour concentrations and contaminants of concern by sampling the existing soil vapour probes present along Rochester Street.
 - The Air Sampling Program was conducted on June 21, 2021. In total, eight (8) air canister samples were taken in a four (4) hour sampling period in order to ascertain the air quality parameters, presence of elevated soil vapour concentrations and contaminants of concern in the study area. Three (3) samples were taken inside the residential properties located at 246, 250 and 254 Rochester Street, one (1) sample was taken from outside, and four (4) additional samples were taken from the existing vapour probes on the Rochester ROW.
 - Eight (8) verification air samples were collected and analysed for permanent gases and VOCs. The subject property was assessed using the List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of Environment, Conservation and Parks. The analytical results for all of the samples submitted were below the applicable site standard, apart for several exceedances for chloroform. Rubicon also compared the results to a study done on Canada's air quality as well as multiple other air quality documents, which indicates that the levels of Chloroform are regular indoor air quality concentrations. None of the potential contaminants of concern which included; toluene, tetrachloroethylene (PCE), trichloroethylene (TCE) dichloroethylene (DCE), vinyl chloride, and chloroform were present at concentrations greater than the typical site condition standards.
 - Based on the findings in the Air Quality Assessment, Rubicon states that the subject meets the applicable list of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks. It is the opinion of Rubicon that there are no known environmental conditions within the areas investigated on the subject property to warrant further environmental investigation at this time.

(b) Environmental Source Information

ERIS specializes in providing environmental and historical information compiled from numerous government and private records. As part of this investigation, a record search was conducted within a buffer zone of 0.25 km (250m) of the subject property and the results were mapped. Refer to Appendix 7.



The ERIS search identified two (2) records associated with the subject property: two (2) Water Well Information Systems.

The ERIS search on the surrounding lands (0.25 km radius) showed the properties surrounding the subject site had the following two hundred and sixteen (216) records: three (3) Automobile Wrecking & Supplies; four (4) Borehole; thirteen (13) Certificates of Approval; six (6) Delisted Fuel Tanks; four (4) Environmental Activity and Sector Registry; two (2) Environmental Registry; twenty-seven (27) Environmental Compliance Approval; fifty-two (52) Eris Historical Searches; three (3) Fuel Storage Tanks; forty-eight (48) Ontario Regulation 347 Waste Generators Summary; one (1) Fuel Oil Spills and Leaks; nine (9) Pesticide Registers; one (1) Pipeline Incidents; two (2) private and Retail Fuel Storage Tanks; one (1) Permit to Take Water; two (2) Record of Site Conditions; one (1) Retail Fuel Storage Tanks; five (5) Scott's Manufacturing Directory; ten (10) Ontario Spills and twenty-two (22) Water Well Information Systems.

Based on the evaluation of the two hundred and sixteen (216) records reviewed, as part of the Phase I ESA, it was determined that the properties in close proximity to the Phase I property were identified as having non-contributing potentially contaminating activity (PCA), as defined by Column A of Table 2 of Schedule D of O. Reg. 153/04 for the following reasons: PCAs were found to be at distances and / or buffers and / or side gradient or down gradient from the subject property. Due to these reasons the PCAs identified in the ERIS records are considered low risk and not an APEC.

Additional Sources

Title Search:

An up-to-date chronological chain of title was prepared for the property. The chain of title goes back to 1855 and covers the ownership of the properties to present.

A copy of the Chain of Title has been made available in Appendix 2.

City Directory: City Directories were available for the 245, 247, 249, 261, 263, 267 Rochester Street and 27 Balsam Street, Ottawa, Ontario properties (RSC property) and 23 & 25 Balsam Street, Ottawa, Ontario properties (adjacent properties).

YEAR	SITE LISTING INFORMATION
2011	245 Rochester Street: Residential or No Listing (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listing (Not Individually Indicated Within Coverage) 249 Rochester Street: Residential or Address Not Listed 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Fanto Group 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed



2006/2007	<p>245 Rochester Street: 247 Rochester Street: Residential or No Listing (Not Individually Indicated Within Coverage)</p> <p>247 Rochester Street: Residential or No Listing (Not Individually Indicated Within Coverage)</p> <p>249 Rochester Street: Vietnamese Canadian Federation</p> <p>261 Rochester Street: Residential or Address Not Listed</p> <p>263 Rochester Street: Sleiman Oil Corporation</p> <p>267 Rochester Street: Residential or Address Not Listed</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>
2001/2002	<p>245 Rochester Street: 247 Rochester Street: Residential or No Listing</p> <p>247 Rochester Street: Residential or No Listing (Not Individually Indicated Within Coverage)</p> <p>249 Rochester Street: Residential or Address Not Listed</p> <p>261 Rochester Street: Residential or Address Not Listed</p> <p>263 Rochester Street: Anti-Stress</p> <p>267 Rochester Street: Residential or Address Not Listed</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>
1996/1997	<p>245 Rochester Street: 247 Rochester Street: Residential or No Listing (Not Indicated)</p> <p>247 Rochester Street: Deborah's Hair Design</p> <p>249 Rochester Street: Vietnamese Canadian Federation</p> <p>261 Rochester Street: Tele-Litho Inc</p> <p>263 Rochester Street: Oliviero Jack & Sons Painting & Decorating Inc.</p> <p>267 Rochester Street: Residential or Address Not Listed</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>
1992	<p>245 Rochester Street: Don's Varity Store</p> <p>247 Rochester Street: Deborah's Hair Design</p> <p>249 Rochester Street: Vietnamese Canadian Federation</p> <p>261 Rochester Street: Tele-Litho Inc</p> <p>263 Rochester Street: Midtown Convenience Store</p> <p>267 Rochester Street: Residential or Address Not Listed</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>
1987	<p>245 Rochester Street: Don's Varity Store</p> <p>247 Rochester Street: Ron's Take Out</p> <p>249 Rochester Street: Café Delight Emigranti</p> <p>261 Rochester Street: Residential or Address Not Listed</p> <p>263 Rochester Street: Residential or Address Not Listed</p> <p>267 Rochester Street: Residential or Address Not Listed</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>
1981/1982	<p>245 Rochester Street: Don's Varity Store</p> <p>247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage)</p> <p>249 Rochester Street: Café Delight Emigranti</p> <p>261 Rochester Street: Residential or Address Not Listed</p> <p>263 Rochester Street: Residential or Address Not Listed</p> <p>267 Rochester Street: Minnelli's Dry Cleaning</p> <p>27 Balsam Street: Residential or Address Not Listed</p> <p>25 Balsam Street: Residential or Address Not Listed</p> <p>23 Balsam Street: Residential or Address Not Listed</p>



1976	<p>245 Rochester Street: Obe Employees Assoc 247 Rochester Street: Kary Lyne Take Out 249 Rochester Street: Café Delight Emigranti 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Minnelli's Dry Cleaning 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1971:	<p>245 Rochester Street: Continental Beauty Salon 247 Rochester Street: Karylyne Take Out 249 Rochester Street: George's Fruit Store 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Minnelli's Dry Cleaning 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1965	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Storage 249 Rochester Street: George's Fruit Store 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Minnelli's Dry Cleaning 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1960	<p>245 Rochester Street: Don's Confectionery 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: George's Fruit Store 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Domenic Paints 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1955	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Storage 249 Rochester Street: Residential or Address Not Listed 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1950	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Capital Photo Engraving 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>



1946	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Residential or Address Not Listed 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1941	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Mayfair Bakery 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1935	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Mayfair Pie Bakery 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1930	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Residential or Address Not Listed 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Residential or Address Not Listed 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1926	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: Residential or Address Not Listed 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Chinese Laundry 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>
1920	<p>245 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 247 Rochester Street: Residential or No Listings (Not Individually Indicated Within Coverage) 249 Rochester Street: St Agnes School Annex 261 Rochester Street: Residential or Address Not Listed 263 Rochester Street: Chinese Laundry 267 Rochester Street: Residential or Address Not Listed 27 Balsam Street: Residential or Address Not Listed 25 Balsam Street: Residential or Address Not Listed 23 Balsam Street: Residential or Address Not Listed</p>



1885/1886	245 Rochester Street: Street Not Listed 247 Rochester Street: Street Not Listed 249 Rochester Street: Street Not Listed 261 Rochester Street: Street Not Listed 263 Rochester Street: Street Not Listed 267 Rochester Street: Street Not Listed 27 Balsam Street: Street Not Listed 25 Balsam Street: Street Not Listed 23 Balsam Street: Street Not Listed
1879	249 Rochester Street: Street Not Listed 261 Rochester Street: Street Not Listed 263 Rochester Street: Street Not Listed 267 Rochester Street: Street Not Listed 27 Balsam Street: Street Not Listed 25 Balsam Street: Street Not Listed 23 Balsam Street: Street Not Listed

From the review of the City directories Two (2) PCA's were identified.

PCA (28) - Gasoline and Associated Products Storage in Fixed Tanks which was associated with Sleiman Oil Corporation in 2006/2007.

PCA (37) - Operation of Dry-Cleaning Equipment (where chemicals are used) associated with Minnelli's Dry Cleaning from 1965-1982 and Chinese Laundry from 1920-1926.

Refer to PCA Table.

(c) Physical Setting

(i) Aerial Photographs Setting Sources

Documents reviewed included historical aerial photographs (1928, 1938, 1945, 1953, 1965, 1976, 1985, 1991, 2002, 2011, 2021). Refer to Appendix 3.

- 1928: The resolution makes the photo unclear. The aerial photograph appears to have multiple buildings on the subject property. It appears the surrounding lands to be developed as residential and commercial, with agricultural development to the west and south, and with an industrial operation to the northwest of the subject property.
- 1938: The resolution makes the photo unclear. It appears that there have been no significant changes to the subject property or surrounding lands apart from some further commercial/residential development to the south.
- 1945: The resolution makes the photo unclear. It appears that there have been no significant changes to the subject property. There appears to be further commercial and residential development to the west and south of the subject property.
- 1953: The resolution makes the photo unclear. From the aerial photograph it appears that there have been no significant changes to the subject property. There appears to be further commercial development to the west and south.



- 1965: The aerial photograph shows the site to be unchanged with further commercial development to the south.
- 1976: It appears that the subject property is equipped with four (4) buildings used for commercial services. It appears that there have been no significant changes to the surrounding lands apart from further commercial/residential development to the north, south and southwest.
- 1985: The aerial photograph appears to show the site and surrounding lands to have no significant changes.
- 1991: The aerial photograph shows the site to have no significant changes. There appears to be further commercial/residential development to the south.
- 2002: The aerial photograph shows the site and surrounding lands to have no significant changes.
- 2011: It appears that there have been no significant changes to the subject property. The aerial photograph appears to show further development to the west of the site.
- 2021: It appears that there have been no significant changes to the subject property. The aerial photograph appears to show further development to the west for agricultural or other land use.

(ii) Geology, Topography, Hydrology

The site is located located in a physiographic region known as the Limestone Plain (Physiography of Southern Ontario, Chapman and Putnam, 1984).

Map 2544 "Bedrock Geology of Ontario, Southern Sheet", indicates bedrock in the Ottawa area to be within a region of limestone, dolostone, arkose and sandstone of the Middle Ordovician, Ottawa Gp.; Simcoe Gp.; Shadow lake Fm.

Map 2556 "Quaternary Geology of Ontario, Southern Sheet" indicates that the Ottawa area consists of Bedrock: undifferentiated igneous and metamorphic rock, exposed at surface or covered by a discontinuous, thin layer of drift.

The elevation for the subject property obtained from Google Earth was noted as 64 m.

(iii) Fill Material

No areas of fill were identified on site.

(iv) Water Bodies, Areas of Natural Significance & Ground Water Information

No water bodies were found within the study area. No areas of natural significance and any well head protection areas or other designation identified by the municipality in its official plan for the protection of groundwater were identified in the study area.



The RSC property and all other properties are serviced with municipal drinking water as there were no well record identified for water supply use in the study area. Ottawa receives treated water from the Ottawa River.

(v) Well Records

The ERIS report shows thirty-two (32) Water Well Information System. Ontario well records identified eight (24) wells within the Phase I ESA study area.

Record #	Well ID	Well Tag # Since 2003	Contractor Lic#	Well Depth (m)	Date of Completion (DD/MM/YYYY)	Potable Well (yes/no)	Notes & Recommendation
1	7204253	N/A	7241	4.9	05/22/2013	No	Monitoring Well
2	7204254	A145283	7241	4.6	05/26/2013	No	Monitoring Well
3	7353770	A279030	1844	2.2	12/11/2012	N/A	Well Use Not Listed
4	7204974	A132275	6964	N/A	12/11/2012	N/A	Well Use Not Listed
5	7382700	A302981	7241	N/A	02/05/2021	N/A	Well Use Not Listed
6	7197903	A130167	1844	5.7	07/26/2012	No	Monitoring Well
7	7365657	A242464	1844	N/A	04/16/2019	N/A	Well Use Not Listed
8	7382699	A302983	7241	N/A	02/05/2021	No	Monitoring Well
9	7365656	A096523	1844	N/A	01/08/2020	N/A	Well Use Not Listed
10	7297428	A215212	1844	N/A	08/28/2017	N/A	Well Use Not Listed
11	7365658	A242464	1844	N/A	12/12/2019	N/A	Well Use Not Listed
12	7204405	A098723	7241	15.2	06/04/2013	No	Monitoring Well
13	7169258	A080581	7323	10.7	2011	No	Monitoring Well
14	7199618	N/A	1844	N/A	08/10/2012	N/A	Well Use Not Listed
15	7355925	A272571	6964	1.9	03/05/2020	No	Monitoring Well
16	7204404	A098722	7241	15.2	06/04/2013	No	Monitoring Well
17	7355926	A272572	6964	2.0	03/05/2020	No	Observation Well
18	7373866	A098722	1844	N/A	09/04/2020	N/A	Well Use Not Listed
19	7239792	A175627	7241	5.5	03/20/2015	No	Monitoring Well
20	7261917	A170502	7241	4.9	04/08/2016	No	Monitoring Well
21	7230093	A153936	1844	10.9	01/17/2014	No	Monitoring Well
22	1535493	N/A	1844	4.7	05/03/2005	No	Test Hole
23	7239793	A175665	7241	5.5	03/20/2015	No	Monitoring Well
24	7261920	A176545	7241	4.9	04/08/2016	No	Monitoring Well
25	7306420	A147219	6964	N/A	10/04/2017	N/A	Well Use Not Listed
26	7261916	A170505	7241	4.9	04/08/2016	No	Monitoring Well
27	7239791	A175664	7241	9.1	03/20/2015	No	Monitoring Well
28	7226960	A165746	7241	4.9	07/25/2014	No	Monitoring Well



29	7230092	A153936	1844	8.5	01/17/2014	No	Monitoring Well
30	7226959	A164745	7241	5.5	07/25/2014	No	Monitoring Well
31	7372053	N/A	7659	N/A	10/05/2020	N/A	Well Use Not Listed
32	7370618	A242453	1844	N/A	05/16/2018	N/A	Well Use Not Listed

The location of all wells can be found in the Well Survey Figure 2.

Two (2) Well Records within the study area were reviewed. The reviewed Well Records corresponds to Well ID: 7204253 & 7204254. Upon review the overburden from the ground to the bedrock consisted of clay to 0.31 m. The recorded bedrock depths, where available was at 2.3 m from the previous Phase II ESA reviewed. The recorded water table depth, where available was 1.70 m.

(d) Site Operating Records

All reasonable enquiries were made to obtain site operating records as part of the enhanced investigation and no relevant records were available for review.

5.0 INTERVIEWS

Information regarding the subject property was obtained during an interview with the current property owner. The interview was conducted in person with Mr. Carl Madigan, the property owner.

During the interview, it was mentioned that the one of the buildings; 267 Rochester Street, was previously used as a dry cleaner. Dry Cleaner's correspond to PCA 37- Operation of Dry-Cleaning Equipment (where chemicals are used). As this PCA occurred on the subject property, it is considered an APEC to the subject property.



6.0 SITE RECONNAISSANCE

(a) General

The Phase I site visit occurred in December of 2021. The weather conditions were -10°C and sunny. The time frame for the investigation was 1 hour (11:00 am – 12:00 pm). At the time, the subject property was vacant containing the basement foundations of four (4) residential buildings; 27 Balsam Street, 249 Rochester Street, 253 Rochester Street & 263/267 Rochester Street. The site inspection was carried out by Paul D. Rew, Q.P. Photographs taken of the subject property as part of the current investigation can be reviewed with descriptions in Appendix 1.

(b) Specific Observations at Phase I Property

Summary of Phase I Property

Property Size	Approximately 2,000 m ²
Number of Buildings	N/A
Building Sizes	N/A
Date of Construction:	N/A
Ceiling	N/A
Flooring	N/A
Interior Construction	N/A
Exterior Construction	N/A

Four below-ground basement foundations were observed on site during the phase one investigation.

No current aboveground or belowground storage tanks were observed on site. There is no evidence of historic aboveground or underground tanks.

Hydro, municipal water services, municipal sanitary and storm sewer systems, natural gas, and bell utilities are available for servicing to the RSC Property.

Indoor Observations

Exit and Entry Points – N/A

Details of Heating – N/A

Details of Cooling – N/A

Pits and Drains – No pits or drains were observed during the phase one investigation.

Unidentified Substances – N/A

Locations of Stains - N/A



Outdoor Observations

Seven (7) monitoring wells were observed during the site investigation.

The ground surface of the Phase 1 Property consisted of dirt and vegetation in the centre and west side of the property. The east side of the subject property consisted of mainly asphalt and vegetation. Vegetation is located on the north and western perimeter of the subject property.

There is no evidence of current or former railway lines or spurs on the Phase I property. There is no evidence of historical oil staining or spillage. There is no other evidence of staining of soils, vegetation, pavement, or concrete on the Phase I property.

There is no evidence of stressed vegetation on the Phase I property. There is no evidence or documentation of fill. No areas identified with a current Potentially Contaminating Activity were found. No unidentified substances were found on the Phase I property.

(i) Enhanced Investigation Property

The subject property does meet the criteria for an enhanced investigation as the 263 and 267 Rochester Street property was used historically for the operation of dry-cleaning equipment. All reasonable enquiries were made to obtain site operating records as part of the enhanced investigation and no relevant records were available for review.

(c) Written Description of Investigation

This Phase One ESA was carried out with an in person and desk top investigation in order to identify any current or historic PCAs within the study that could lead to any APEC on the subject property.

The in-person investigation was conducted at the subject property, including an outdoor examination, along with an interview with the property owner. From the in-person interview it was mentioned that the property located at 267 Rochester Street was historically used for dry cleaning operations. This PCA is considered as an APEC on the subject property.

The desk top investigation included the review of available environmental documents, such as the ERIS records within the study area, historic aerial photos, city directory search, fire insurance maps, and previous environmental site assessments on the subject property.

From the review of the City directories Two (2) PCA's were identified. Gasoline and Associated Products Storage in Fixed Tanks which was associated with Sleiman Oil Corporation in 2006/2007. Operation of Dry-Cleaning Equipment (where chemicals are used) associated with Minnelli's Dry Cleaning from 1965-1982 and Chinese Laundry from 1920-1926. These PCAs are considered an APEC to the subject property.

From the review of the previous environmental investigations, two (2) PCAs were identified. The potential contaminating activity identified in the previous Phase Two ESA pertained to the historical dry-cleaning operations that took place at 263 Rochester Street. Fill Material of unknown quality was also found on the subject property. These two (2) PCAs are considered APECs to the subject property.



7.0 REVIEW and EVALUATION of INFORMATION

(i) Current and Past Land Uses

Current and Past Land Use Table

27 Balsam Street *PIN* 04108-0280 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 259, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Uhotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2007 - 2012	Fanto At 29 Balsam Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2006 – 2007	Kennedy, Blaine Ranson			
2004 – 2006	Meade, Clark Edward Chichirau, Alexandru			
2002 – 2004	Li, Yafei Guo, Fang			
1988 – 2002	Grieco, Antonio Grieco, Vincenza			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1986 - 1988	Griceo, Antonio			
1982 - 1986	Vasconcelos, Manuel Vasconcelos, Grasiomilde			
1960 - 1982	Disipio, Giuseppe Disipio, Concetta	Church	Communal	Fire Insurance Maps obtained show the site to function as a Slavic Pentecostal Church in 1963.
1949 - 1960	Dan Defalco Teresa Defalco	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1948 - 1949	Terrance Hunter Margaret Hunter			
1945 - 1948	Bertrude Carlborg			
1945 - 1945	Joseph Abraham			
1896 - 1945	Thomas J. Beaton			
1893 - 1896	John Hodgins			
1861 - 1893	Sarah Lowrie			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester			The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown			



245/247 Rochester Street **PIN: 04108-0263 (LT)**

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential Housing	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2011 – 2012	249 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1994 – 2011	Phung, Bao Thien	245 Rochester Street: Don's Varsity Store (1981 – 1992) 247 Rochester Street: Deborah's Hair Design (1992 – 1997)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1962 – 1994	Chevrier, Jacqueline Chevrier, Donald	245 Rochester Street: Don's Varsity Store (1981 – 1992) Obe Employees Assoc (1976) 247 Rochester Street: Deborah's Hair Design (1992 – 1997) Ron's Take Out (1987) Kary Lyne Take Out (1971 – 1976) Storage (1965)		
1925 – 1962	Harry Chevrier	245 Rochester Street: Don's Confectionery (1960) 247 Rochester Street: Storage (1955) Residential Housing		
1916 – 1925	Deni Bardecci	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1905 - 1916	Loui Bardecci			
1890 – 1905	Thomas Rock			
1859 - 1890	Martin Kealey			Lot 210, Plan 14, East Rochester
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1859	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	



249 Rochester Street **PIN** 04108-0281 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2010 – 2012	249 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1992 - 2010	Vietnamese Canadian Center			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1992 – 1992	Vietnamese Canadian Federation	Unknown	Unknown	No City Directories, Aerial Photographs or FIPs were located during this time period.
1986 – 1992	Canadian Federation of Vietnamese Associations	Vietnamese Canadian Federation (1992-2007)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1975 – 1986	Grieco, Antonio Grieco, Vincenza	Café Delight Emigranti (1975 – 1987)		
1966 – 1975	Giorgio Musca, Lucia Musca	George's Fruit Store (1960 – 1971)		
1952 – 1966	Catherine Pavia Rosario Pavia	George's Fruit Store (1960 – 1971)		
1921 – 1952	Giuseppe Constantine	Mayfair Bakery (1935 Capital Photo Engraving(1950) St Agnes School Annex (1920)	Commercial / Communal	The City Directory search shows the address to be used for commercial and communal purposes during this time.
1912 – 1921	John Kendrick	St Agnes School Annex (1920)	Communal	The City Directory search shows the address to be used for communal purposes during this time.
1912 - 1912	Maurice Brennan	Residential	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential housing is the suspected use of the subject property.
1905 – 1912	Alexander Jacques			
1897 - 1905	David A. Johnston			
1891 – 1897	Henry J. Burton			
1861 - 1891	Eugene Provincalle			Lot 260, Block 126, East Rochester Street, Plan 16
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	



261 Rochester Street **PIN** 04108-0282 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2009 - 2012	261 Rochester Street Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2005 - 2009	Goss, Corey			
2002 - 2005	Nguyen, Hanh Huu Nhan, Dung Thuy			
2001 – 2002	Mancini, Tony Mcelheran, Brent	Anti-Stress (01/02)	Commercial	The City Directory search shows the address to be used for commercial purposes during this time.
1999 - 2001	Mancini, Tony	Tele-Litho Inc. (1992 – 2001)	Commercial	
1988 – 1999	Andrew Tabak	Tele-Litho Inc (1992 – 2001)	Commercial	
1987 - 1988	Rachel Fdgel Rose Indig Malcolm Glube	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Hosuing is the suspected use of the subject property.
1984 – 1987	Rita Persaud			
1966 – 1984	George Nusca Lucia Nusca			
1952 - 1966	Catherine Pavia Rosario Pavia			
1921 - 1952	Giuseppe Constantine			
1912 – 1921	John Kendrick			
1912 - 1912	Maurice Brennan			
1905 – 1912	Alexander Jacques			
1897 - 1905	David A. Johnston			
1891 – 1897	Henry J. Burton			
1861 - 1891	Eugene Provincalle			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	



29 Balsam Street, 265,267 Rochester Street **PIN** 04108-0283 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2006 - 2012	Fanto at 29 Balsam Inc.	Fanto Group	Residential	The City Directory search shows the address to be used under the name Fanto Group, suspected residential housing.
1978 – 2006	Oliviero, Giacomo	Residential Housing (1987 – Present) Domenic Paints (1960) Minnelli's Dry Cleaning (1965 – 1982)	Commercial / Residential	The City Directory Search shows the address to be commercial and residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1975 - 1978	Oliviero, Giacomo Oliviero, Bruno			
1966 - 1975	Margaret Misericordia			
1962 – 1966	Maria Minnelli			
1960 - 1962	Abraham Leonie Lucy Leonie	Residential Housing	Residential	Lot 261, Block 126, East Rochester Street, Plan 16
1928 - 1960	Charles Leonie Helen Leonie			
1927 – 1928	Elizabeth M. Dulchen			
1861 - 1927	Rose Monk			
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	



263 Rochester Street **PIN** 04108-0284 (LT)

Year	Name of Owner	Description of Property Use	Property Use	Other observation from aerial photographs, fire insurance plans, etc.
Lot 260, Plan 16, Ottawa/Nepean				
2017 - Present	3N Group Holdings Inc.	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2017 – 2017	Andridge Capital Corporations			Land Title records show Ontario Superior Court Of Justice transfer the land to Andridge Capital Corporation in 2017.
2012 – 2017	Unotowns Inc.			Land Title records show change of name for Site Owner in 2012.
2011 - 2012	Fanto at 29 Balsam Inc.			The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
2004 - 2011	City of Ottawa	Sleiman Oil Corporation (06-07)	Commercial / Residential	Land Title records show City of Ottawa obtained the land after declaration of tax arrears in 2002.
1915 – 2004	Currell Clara	Oliviero Jack & Sons Painting & Decorating Inc (1996/97) Midtown Convenience Store (1992) Residential Housing (1930 – 1992) Chinese Laundry (1920 – 1926)	Commercial / Residential	The City Directory Search shows the address to be used for commercial purposes as well as residential or not listed during this time.
1907 – 1915	Clifton A. Douglas David M. Finnie Aida Segalowitz	Residential Housing	Residential	The City Directory Search shows the address to be residential or not listed during this time. Residential Housing is the suspected use of the subject property.
1897 – 1907	Maria Donjon			
1895 – 1897	Sylvanie J. Major			
1861 - 1895	Pierre J. Bozin			Lot 261, Block 126, East Rochester Street, Plan 16
Part of Lot 39, Concession 1, Ottawa Front, Nepean				
1855 - 1861	James Rochester	Residential Housing	Residential	The Phase One Property was part of 156 acres of land granted to James Rochester in 1855.
Prior to 1855	Crown	Agricultural or Other Land Use	Agricultural or Other Land Use	

Based on the information gathered during this investigation the subject property was used for residential purposes since its initial development in 1855. From the city directory search, it was determined that most of the properties operated as commercial from the mid-1990s to early 2000s. It appears that the subject property switched to residential use in 2011.

(ii) Potentially Contaminating Activity

Based on the findings of a Phase One Environmental Site Assessment (ESA) completed by Rubicon Environmental (2008) Inc., in accordance with O. Reg 153/04, thirty-three (33) potentially



contaminating activities (PCAs) were identified both on site and within the Phase One ESA study boundary of 250 m.

All PCAs identified within the Phase One Study area are presented in the Table 1 and Table 2 below.

The Ministry of the Environment (MOE) has identified "*Potentially Contaminating Activities*" (PCAs) specific for identified activities listed in Table 2 of O. Reg. 153 / 04.

The Phase One ESA identified on-site and off-site potentially contaminating activities (PCAs) that may have led to multiple areas of potential environmental concern (APECs) on the subject property.

Table 1 . Contributing Potentially Contaminating Activities Pertaining to the RSC Property

PCA #	Historic or Current Source (Address)	Activity Description	Date	PCA's	Rationale
1	Historical On Site (263 & 267 Rochester Street)	Historical Dry Cleaner Operations (Chinese Dry Cleaners & Minnelli's Dry Cleaning)	1920 – 1926 1965 - 1982	(37) – Operation of Dry-Cleaning Equipment (where chemicals are used)	From the information gathered during the Phase One Investigation, more specifically the city directory search, it appears that there was a dry cleaner operating at 263 and 267 Rochester Street from 1920 to 1926, and 1965 to 1982, respectively. As there was no documentation of the quality of the soil or groundwater available for review, due diligent soil and groundwater sampling is recommended for comparison to current O.Reg 511/09 residential land use standards. Due to the historical documentation of this PCA to exist on the RSC property, it is considered an APEC.
2	Historical On-Site (263 Rochester Street)	Historical Oil Corporation (Sleiman Oil Corporation)	2006 - 2007	(28) – Gasoline and Associated Products Storage in Fixed Tanks	From the information gathered during the Phase One Investigation, more specifically the city directory search, it appears that there was an oil corporation operating at 263 Rochester Street from 2006 - 2007. As there was no documentation of the quality of the soil or groundwater available for review, due diligent soil and groundwater sampling is recommended for comparison to current O.Reg 511/09 residential land use standards. Due to the historical documentation of this PCA to exist on the RSC property, it is considered an APEC.
3	Historical On-Site	Fill Material	Unknown-Present	(30) - Importation of Fill Material of Unknown Quality	From the review of the previous Phase Two ESA, Fill was found on-site, which corresponds to PCA (30) - Importation of Fill Material of Unknown Quality. Due to this PCA to existing on the RSC property, it is considered an APEC.

The PCAs that were identified, within the Phase One Study Area, that are considered to pose a relatively low-level of potential environmental impact to the Phase One Property, are rationalized in the table below:



Table 2 . Non-Contributing Potentially Contaminating Activities Pertaining to the RSC Property

PCA #	Historic or Current Source (Address)	Activity Description	Date	PCA's	Rationale
4	Historic Off- Site (228 Rochester Street)	Natural Gas Pipeline Incident Natural Gas Leak	2015	(N/A) – Natural Gas leak	According to the ERIS records this spill was located greater than 59m away from the subject property. The contaminant was identified to be natural gas (methane), which is considered low risk. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, elevation and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
5	Historic Off- Site (Intersection Gladstone Street & Rochester Street)	Motor Vehicle Fluids Spill (10L)	2010	(N/A) – Motor Vehicle Fluids Spill	According to the ERIS records this spill was located greater than 82m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, elevation and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
6	Historic Off- Site (23-4 Poplar Street)	Petroleum Distillates Generator	1993 - 1998	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS records this generator was located greater than 114 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this PCA is considered low risk and not considered an APEC on the subject property.
7	Historic Off- Site (351 Booth Street)	Petroleum Distillates	1998 – 1990, 1992 - 2001	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report these records were located greater than 139 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and known soil conditions, potential contaminant flow is unlikely to reach the subject property. The PCA is considered low risk and does not represent an APEC on the subject property.
8	Historic Off- Site (355 Booth Street)	Automobile Parts Store	Unknown	(49) - Salvage Yard, including automobile wrecking	According to the ERIS records this operation was located greater than 139 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and known soil conditions, potential contaminant flow is unlikely to reach the subject property. The PCA is considered low risk and does not represent an APEC on the subject property.
9	Historic Off- Site (43 Willow Street)	Natural Gas Leak/Break	2016	(N/A) – Natural Gas Leak/Break	According to the ERIS records this spill was located greater than 138m away from the subject property. The contaminant was identified to be natural gas (methane), which is considered low risk. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and known soil conditions, potential contaminant



					flow is unlikely to reach the subject property. The PCA is considered low risk and does not represent an APEC on the subject property.
10	Historic Off-Site (225 Preston Street)	Petroleum Distillates	1997 - 2001	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report these records were located greater than 153 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, lower elevation and known soil conditions, potential contaminant flow is unlikely to reach the subject property. The PCA is considered low risk and does not represent an APEC on the subject property.
11	Historic Off-Site (818 Gladstone Ave)	Light Fuels	2021	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 161 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, lower elevation and known soil conditions, potential contaminant flow is unlikely to reach the subject property. The PCA is considered low risk and does not represent an APEC on the subject property.
12	Historic Off-Site (241 Preston Street)	Private & Retail Fuel Storage Tanks	1993	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 170 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, elevation and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this PCA is considered low risk and not considered an APEC on the subject property.
13	Historic (112 Lebreton Street North)	Furnace Oil Tank Leak	2002	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 171 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
14	Historic Off-Site (24 Anderson Street)	Furnace Oil Leak	2004	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 179 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
15	Historic Off-Site (Intersection of Balsam Street and Preston Street)	Natural Gas Spill	2009	(N/A) – Natural Gas	According to the ERIS records this pipeline incident was located greater than 193m away from the subject property. The contaminant was identified to be natural gas (methane). The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, lower elevation and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this PCA is considered low risk and not considered



					an APEC on the subject property.
16	Historic Off-Site (20 Willow Street)	Furnace Oil Leak	1992	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 179 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
17	Historic Off-Site (779 Gladstone Ave)	Private & Retail Fuel Storage Tank	1986 & 1996	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 205 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this PCA is considered low risk and not considered an APEC on the subject property.
18	Current Off-Site (779 Gladstone Ave)	Autobody & Repair Shop	Unknown - Current	(10) – Commercial Autobody Shops (49) - Salvage Yard, including automobile wrecking	According to the ERIS report this record was located greater than 209 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this PCA is considered low risk and not considered an APEC on the subject property.
19	Historic Off-Site (457 Booth Avenue)	Furnace Oil Leak	1996	(28) – Gasoline and Associated Products Storage in Fixed Tanks	According to the ERIS report this record was located greater than 223 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.
20	Historic Off-Site (248 Preston Street)	Water Based Paint Spill	2017	(N/A) - Water Based Paint Spill	According to the ERIS report this record was located greater than 238 m away from the subject property. The soil conditions are known to be predominantly sandy silt to silt matrix in the Ottawa area. Thus, meaning that potential contaminant flow will be restricted due to low porosity and permeability. Due to the distance, lower elevation and the known soil conditions, potential contaminant flow to the subject property is unlikely. Therefore, this spill is considered low risk and not considered an APEC on the subject property.

Based on the twenty-three (23) contributing and non-contributing PCAs identified in and around the RSC property, the following three (3) APECs were identified on the subject property.



(iii) Areas of Potential Environmental Concern**“TABLE OF AREAS OF POTENTIAL ENVIRONMENTAL CONCERN”**
Refer to clause 16(2) (a), Schedule D, O. Reg 153/04

Areas of Potential Environmental Concern (APECs)	Location of Area of Potential Environmental Concern on Phase One Property	Potentially Contaminating Activity (PCA)	Location of PCA (on-site or off-site)	Contaminants of Potential Concern	Media Potentially Impacted (Groundwater, soil and/or sediment)
APEC 1 Historic Dry Cleaning Operations (Related to PCA #1)	Southwest corner of the subject property; where the site building for 263 & 267 Rochester Street were previously located.	(37) – Operation of Dry-Cleaning Equipment (where chemicals are used)	On-site	VOCs	Soil Groundwater
APEC 2 Historic Historical Oil Corporation (Sleiman Oil Corporation) (Related to PCA #2)	Southwest corner of the subject property; where the site building for 263 Rochester Street was previously located.	(28) – Gasoline and Associated Products Storage in Fixed Tanks	On-site	PHCs (F ₁ – F ₄) BTEX	Soil Groundwater
APEC 3 Current Fill Material (Related to PCA #3)	Fill Material is believed to encompass the area of the RSC Property.	(30) - Importation of Fill Material of Unknown Quality	On-site	PHCs (F ₁ – F ₄) BTEX VOC PAH Metals	Soil

The overall conclusion of the Phase One ESA is that there are three (3) APECs on the subject property based on the following three (3) contributing PCAs and thirty (30) non-contributing PCAs, which were identified based on the overall history and uses of the subject property and surrounding area. Out of the three (3) contributing PCAs all were found to have existed on or within 30 m the subject property, therefore they are considered APECs.

APEC #1 is due to the historic use of dry-cleaning equipment from 1920 to 1926 and 1965 to 1982. APEC #1 is considered to encompass the southwest corner of the subject property, where the buildings of 263 & 267 Rochester Street were located.

APEC #2 is due to the historical oil corporation that existed at 263 Rochester Street. APEC #2 is considered to encompass the area where the building of 263 Rochester Street was located.

APEC #3 is due to the unknown quality of the fill material on the subject property. APEC #3 is considered to encompass the perimeter of the RSC Property.



The five (5) contaminants of potential concern were identified at the Site with respect to the three (3) areas of potential environmental concern: Petroleum Hydrocarbons (PHC F₁-F₄), Volatile organic compounds (VOCs), BTEX (Benzene, Toluene, Ethylbenzene and Xylene), PAHs (Polycyclic aromatic hydrocarbons), and Metals.

Volatile organic compounds (VOCs) will be analysed for APEC #1 due to the historical dry-cleaning operations and APEC #3 due to fill material of unknown quality.

Petroleum Hydrocarbons (PHC F₁-F₄) will be analysed for APEC #2 due the historical oil corporation and APEC #3 due to fill material of unknown quality.

BTEX (Benzene, Toluene, Ethylbenzene and Xylene) will be analysed for APEC #2 due to the historical oil corporation and APEC #3 due to fill material of unknown quality.

Metals will be analysed for APEC # 3 due to the unknown contents of the fill material.

PAHs (Polycyclic aromatic hydrocarbons) and Metals will be analysed for APEC # 3 due to the unknown contents of the fill material.

Based on the findings of this Phase One ESA, sufficient evidence and documentation has been reviewed to verify the three (3) APECs on the subject property. Uncertainty with the historic and current uses of the surrounding land could affect this conclusion. The absence of recorded incidents that could have environmental impacts that have occurred within the study area could affect this conclusion.

(iv) Phase One Conceptual Site Model

Refer to Figures for Conceptual Site Model figure. The three (3) contributing PCAs affecting the phase one property are suspected to be located on site. PCA #1 encompasses the southwest corner of the subject property, where the site buildings for 29 Balsam Street, 265 and 267 Rochester Street was located. PCA #2 occurred where the site building for 263 Rochester Street was. PCA # 3 is believed to encompass the entire RSC Property.

The five (5) contaminants of potential concern were identified at the Site with respect to the three (3) areas of potential environmental concern: Petroleum Hydrocarbons (PHC F₁-F₄), Volatile organic compounds (VOCs), BTEX (Benzene, Toluene, Ethylbenzene and Xylene), PAHs (Polycyclic aromatic hydrocarbons), and Metals.

Based on the available information, depth to groundwater and assumed depths of underground utilities, it is unlikely that underground utilities could affect contaminant distribution and transport.

From the reviewed Phase Two ESA done on the subject property, the subsurface conditions generally consisted of asphaltic concrete over fill material followed by grey limestone bedrock. The groundwater table was found to be within the range of 1.5 m to 4.9 m. The maximum depth of the boreholes advanced during this investigation was 10.6 m, bedrock was encountered around 2.3 m.

Reasonable enquiries were made to obtain relevant information in order to fulfil the requirements of a Phase I ESA. Although there is the potential that information is absent, it is the opinion of Rubicon that it would not affect the validity of the model.



8.0 CONCLUSIONS

The Phase I Environmental Site Assessment was completed at the subject property in December of 2021. This section of the report summarizes the findings of this investigation:

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan on behalf of 3N Group Holdings Inc. to undertake a Phase I Environmental Site Assessment (ESA) at the residential properties located at 27, 29 Balsam Street, 247 – 267 Rochester Street in Ottawa, Ontario in order to determine if the soils and groundwater on site are suitable for Residential Land Use. The Phase I ESA investigation was completed on-site to identify any Potentially Contaminating Activities (PCA) that may have occurred in the past or present on the Phase One Property or adjacent properties and to identify any Areas of Potential Environmental Concerns (APEC) on the Phase One Property.

This Phase I ESA is prepared in anticipation of filing a Record of Site Condition with the Ontario Ministry of the Environment - Brownfield's Environmental Site Registry, for the purpose of changing the land use to residential land use. The Phase I Environmental Site Assessment was completed in accordance with Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.

The ERIS search identified two (2) records associated with the subject property: two (2) Water Well Information Systems.

The ERIS search on the surrounding lands (0.25 km radius) showed the properties surrounding the subject site had the following two hundred and sixteen (116) records: three (3) Automobile Wrecking & Supplies; four (4) Borehole; thirteen (13) Certificates of Approval; six (6) Delisted Fuel Tanks; four (4) Environmental Activity and Sector Registry; two (2) Environmental Registry; twenty-seven (27) Environmental Compliance Approval; fifty-two (52) Eris Historical Searches; three (3) Fuel Storage Tanks; forty-eight (48) Ontario Regulation 347 Waste Generators Summary; one (1) Fuel Oil Spills and Leaks; nine (9) Pesticide Registers; one (1) Pipeline Incidents; two (2) private and Retail Fuel Storage Tanks; one (1) Permit to Take Water; two (2) Record of Site Conditions; one (1) Retail Fuel Storage Tanks; five (5) Scott's Manufacturing Directory; ten (10) Ontario Spills and twenty-two (22) Water Well Information Systems.

Based on the evaluation of the two hundred and sixteen (216) records reviewed, as part of the Phase I ESA, it was determined that the properties in close proximity to the Phase I property were identified as having non-contributing potentially contaminating activity (PCA), as defined by Column A of Table 2 of Schedule D of O. Reg. 153/04 for the following reasons: PCAs were found to be at distances and / or buffers and / or side gradient or down gradient from the subject property. Due to these reasons the PCAs identified in the ERIS records are considered low risk and not an APEC.

The overall conclusion of the Phase One ESA is that there are three (3) APECs on the subject property based on the following three (3) contributing PCAs and twenty (20) non-contributing PCAs, which were identified based on the overall history and uses of the subject property and surrounding area. Out of the three (3) contributing PCAs all were found to have existed on or within 30 m the subject property, therefore they are considered APECs.



APEC #1 is due to the historic use of dry-cleaning equipment from 1920 to 1926 and 1965 to 1982. APEC #1 is considered to encompass the southwest corner of the subject property, where the buildings of 263 & 267 Rochester Street were located.

APEC #2 is due to the historical oil corporation that existed at 263 Rochester Street. APEC #2 is considered to encompass the area where the building of 263 Rochester Street was located.

APEC #3 is due to the unknown quality of the fill material suspected to be on the subject property. APEC #3 is considered to encompass the perimeter of the subject property.

The five (5) contaminants of potential concern were identified at the Site with respect to the three (3) areas of potential environmental concern: Petroleum Hydrocarbons (PHC F₁-F₄), Volatile organic compounds (VOCs), BTEX (Benzene, Toluene, Ethylbenzene and Xylene), PAHs (Polycyclic aromatic hydrocarbons), and Metals.

Based on the findings of the Phase I ESA completed by Rubicon Environmental (2008) Inc., it is our opinion that a Phase II Environmental Site Assessment is required on the subject property to fully assess the quality of the subsurface soil and groundwater conditions within the identified areas of potential environmental concern before a record of site condition can be submitted to the Ministry of the Environment.

Respectfully submitted,

RUBICON ENVIRONMENTAL (2008) INC.



Paul D. Rew, P.Eng. QP



9.0 REFERENCES

CSA Standard Z768-01

ERIS Report obtained from, Eco Log Environmental Risk Information Services Ltd.

Google Maps URL: <http://maps.google.ca/maps>

Ontario Geological Survey " Physiography of Southern Ontario. 1984. Map P.2715"

Ministry of Northern Development and Mines "Bedrock Geology of Ontario, Southern Sheet, Map 2544"

Ministry of Northern Development and Mines, "Quaternary Geology of Ontario; Southern Sheet. 1991. Map 2556"

Ontario Ministry of the Environment, Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.

Phase Two Environmental Site Assessment 1085 Clearview Avenue Burlington Avenue. Dated July 2017. Completed by Soil-Mat Engineers & Consultants LTD.

Phase One Environmental Site Assessment 1085 Clearview Avenue And 1082, 1086 and 1090 St. Matthews Avenue Burlington, Ontario. Dated November 14, 2018. Completed by Soil-Mat Engineers & Consultants LTD.

Supplemental Phase Two Environmental Site Assessment 1085 Clearview Avenue. Dated December 11, 2018. Completed by Soil-Mat Engineers & Consultants LTD.

Phase One Environmental Site Assessment 1085 Clearview Avenue And 1082, 1086 and 1090 St. Matthews Avenue Burlington, Ontario. Dated May 23, 2019. Completed by Soil-Mat Engineers & Consultants LTD.



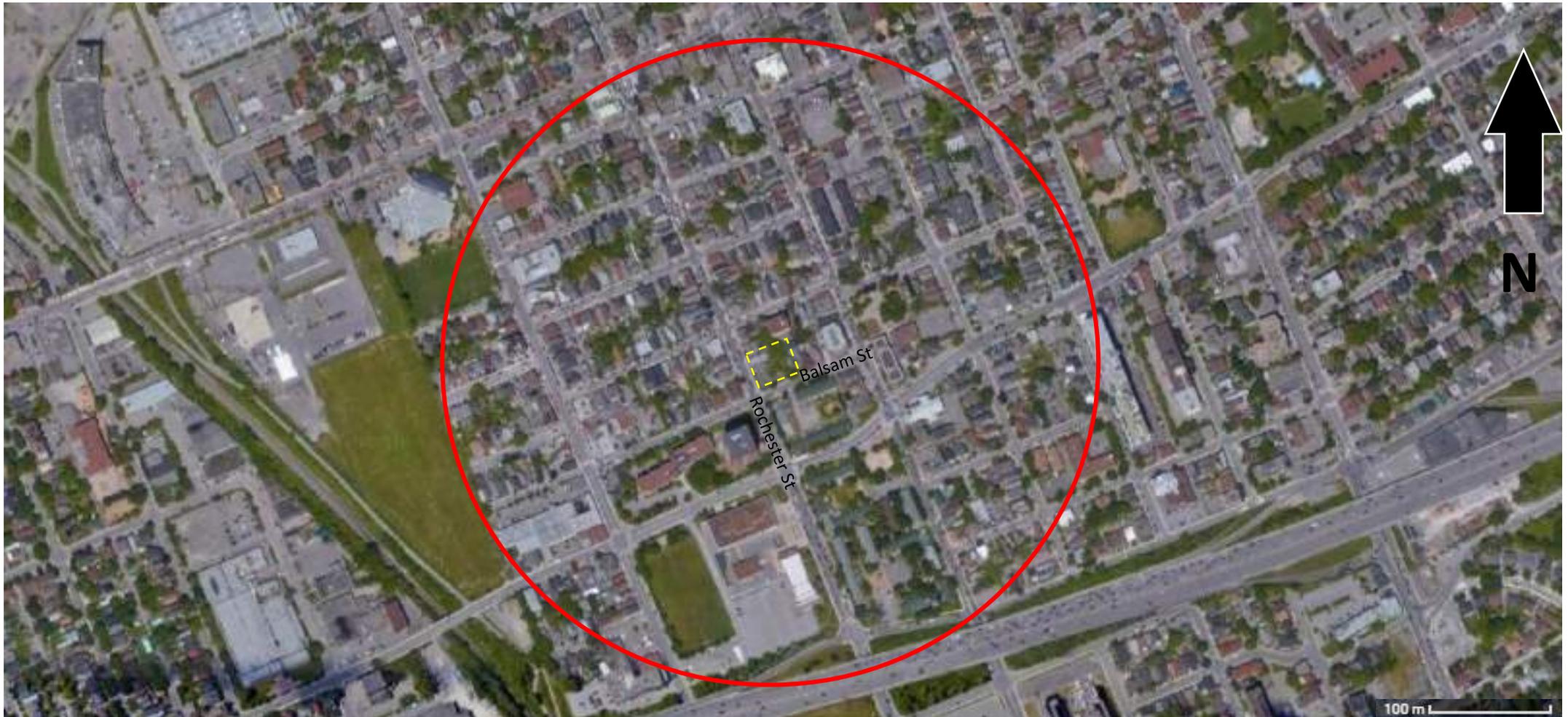
10.0 LIMITATIONS

1. This assessment was conducted in accordance with generally accepted engineering standards. It is possible that materials other than those described in this report are present at the site. The client acknowledges that no assessment can necessarily identify the existence of all contaminants, potential contaminants or environmental conditions;
2. This report was prepared for the sole and exclusive use of Mr. Carl Madigan on behalf of 3N Group Holdings Inc. Rubicon Environmental (2008) Inc. accepts no responsibility or liability for any loss, damage, expense, fine or any other claim of any nature or type, including any liability or potential liability arising from its own negligence, for any use of this report or reliance on it, in whole or in part, by anyone other than Mr. Carl Madigan on behalf of 3N Group Holdings Inc.;
3. There is no representation, warranty or condition, express or implied, by Rubicon Environmental (2008) Inc. or its officers, directors, employees or agents that this assessment has identified all contaminants, potential contaminants or environmental conditions at the site or that the site is free from contamination, potential contaminants or environmental conditions other than those noted in this report;
4. This assessment has been completed from information and documentation described in this report as well as the results of limited chemical analysis of soil samples collected from accessible locations on the date(s) specified. We have assumed that any such information and documentation is accurate and complete. We can accept no responsibility or liability for any errors, deficiencies or inaccuracies in this report arising from errors or omissions in the information and documentation provided by others;
5. This assessment was based on information and the results of investigation(s) obtained on the date(s) specified. Rubicon Environmental (2008) Inc. accepts no responsibility or liability for any changes or potential changes in the condition of the site after the date of our investigation(s);
6. The conditions between sampling locations have been inferred, to the best of our ability, based on the conditions observed at sampling locations. Conditions between and beyond sampling locations may vary. This assessment pertains, only, to the site specifically described in this report and not to any adjacent or other property;
7. This assessment does not include, nor is it intended to include, any opinion regarding the suitability of any structure on the site for any function, the integrity of the on-site buildings or the geotechnical conditions on the site, except for how they may identify with environmental concerns. Inspections of buildings do not include compliance with building, gas, electrical or boiler codes, or any other federal, provincial or municipal codes not associated with environmental concerns. Should concerns regarding any parameters other than environmental concerns arise because of our investigation(s), they should be addressed by appropriately qualified professionals; and,
8. This report is not to be reproduced or released to any other party, in whole or in part, without the express written consent of Rubicon Environmental (2008) Inc.



FIGURES





R63048	NAME	DATE
DRAWN BY:	NP	January 2022
CHECKED BY:	PDR	January 2022
27, 29 Balsam Street, & 247 - 267 Rochester Street, Ottawa, ON		



Figure 1:
Site
Location

Legend
Phase One ESA & RSC Property 
Study Area 

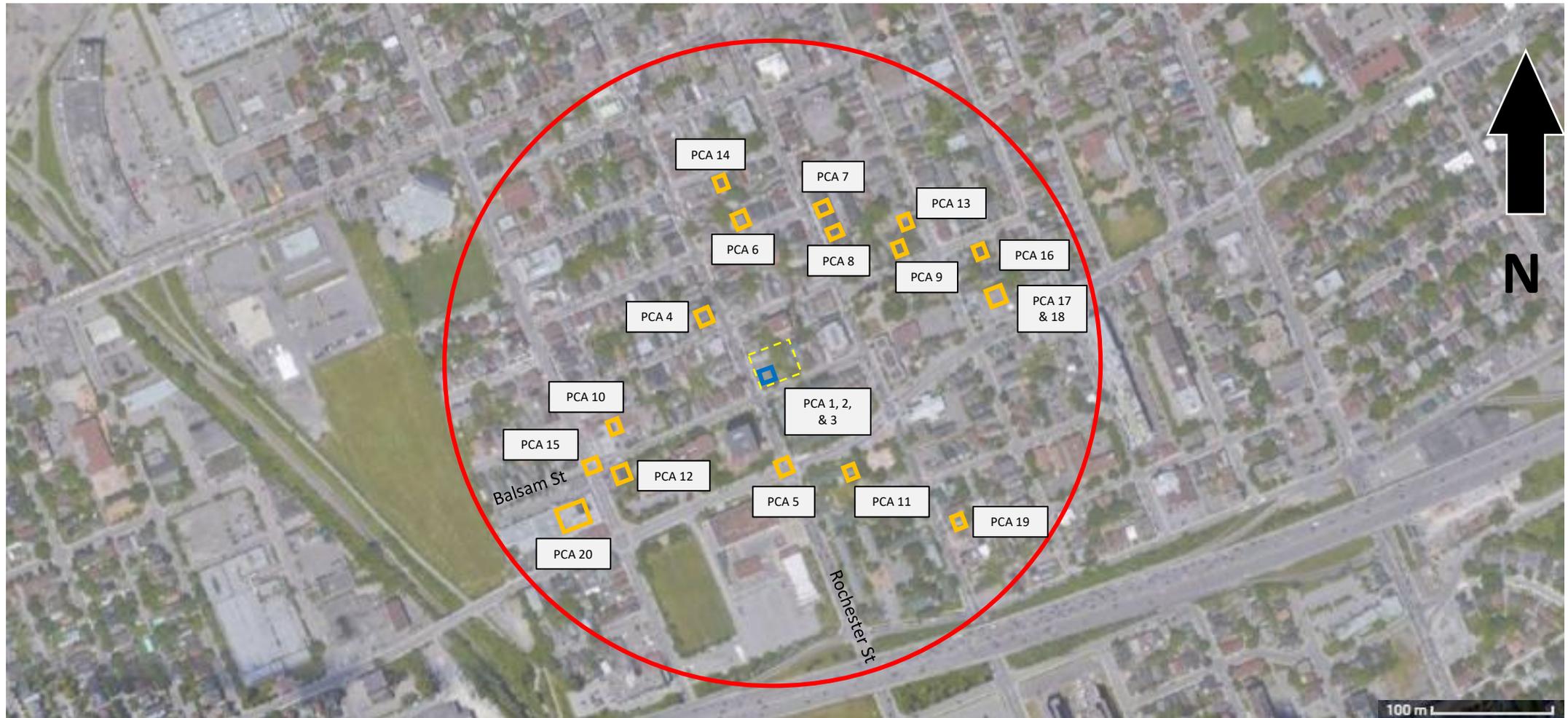


R63048	NAME	DATE
DRAWN BY:	NP	January 2022
CHECKED BY:	PDR	January 2022
27, 29 Balsam Street, & 247 - 267 Rochester Street, Ottawa / ON		



Figure 2:
Site Plan

Legend
Phase One, & RSC Property 
Site Building 

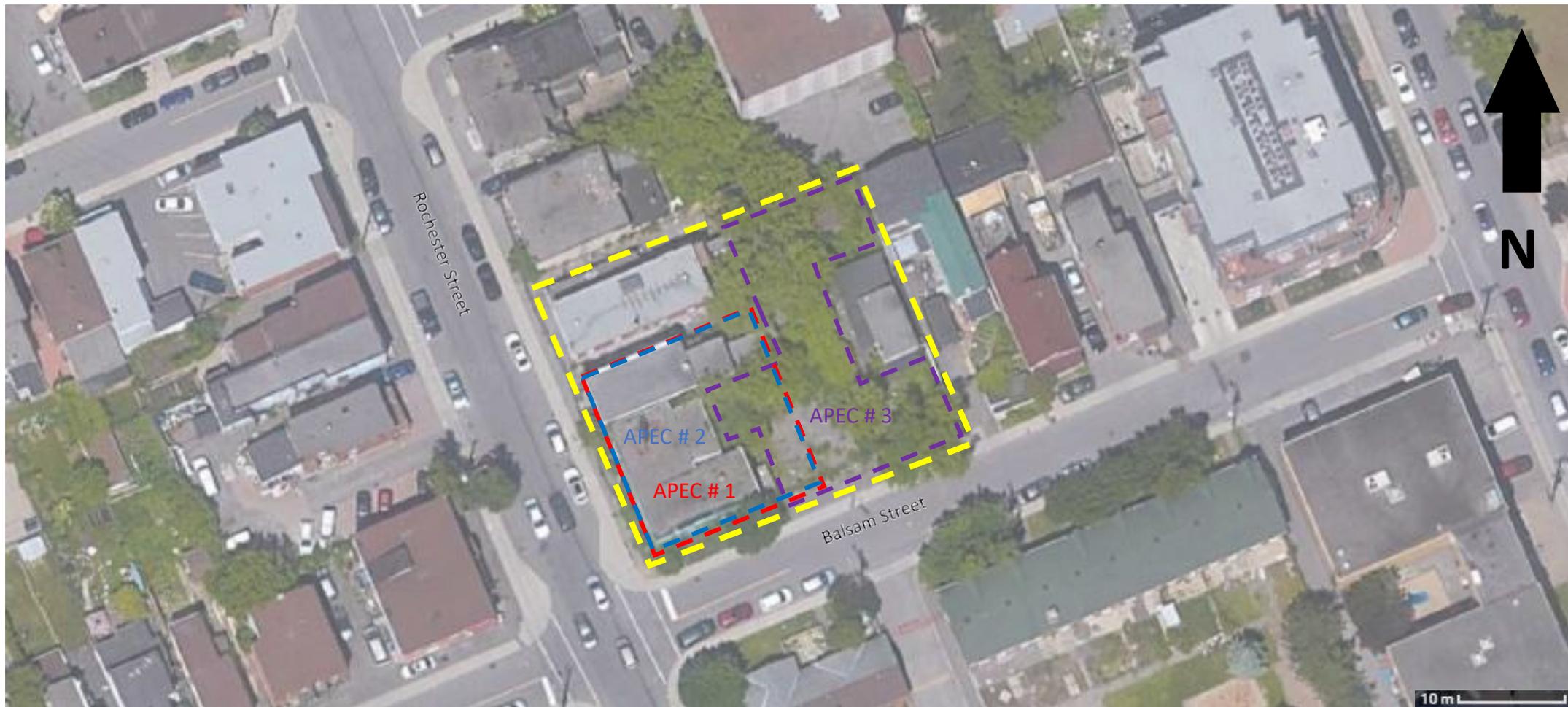


R63048	NAME	DATE
DRAWN BY:	NP	January 2022
CHECKED BY:	PDR	January 2022
27, 29 Balsam Street, & 247 - 267 Rochester Street, Ottawa, ON		



Figure 3:
PCAs - Study
Area

- Legend**
- Phase One RSC Property
 - Phase One Study Area
 - Contributing PCAs
 - Non-Contributing PCAs



R63048	NAME	DATE
DRAWN BY:	AA	January 2022
CHECKED BY:	PDR	January 2022
27, 29 Balsam Street, & 247 - 267 Rochester Street, Ottawa / ON		

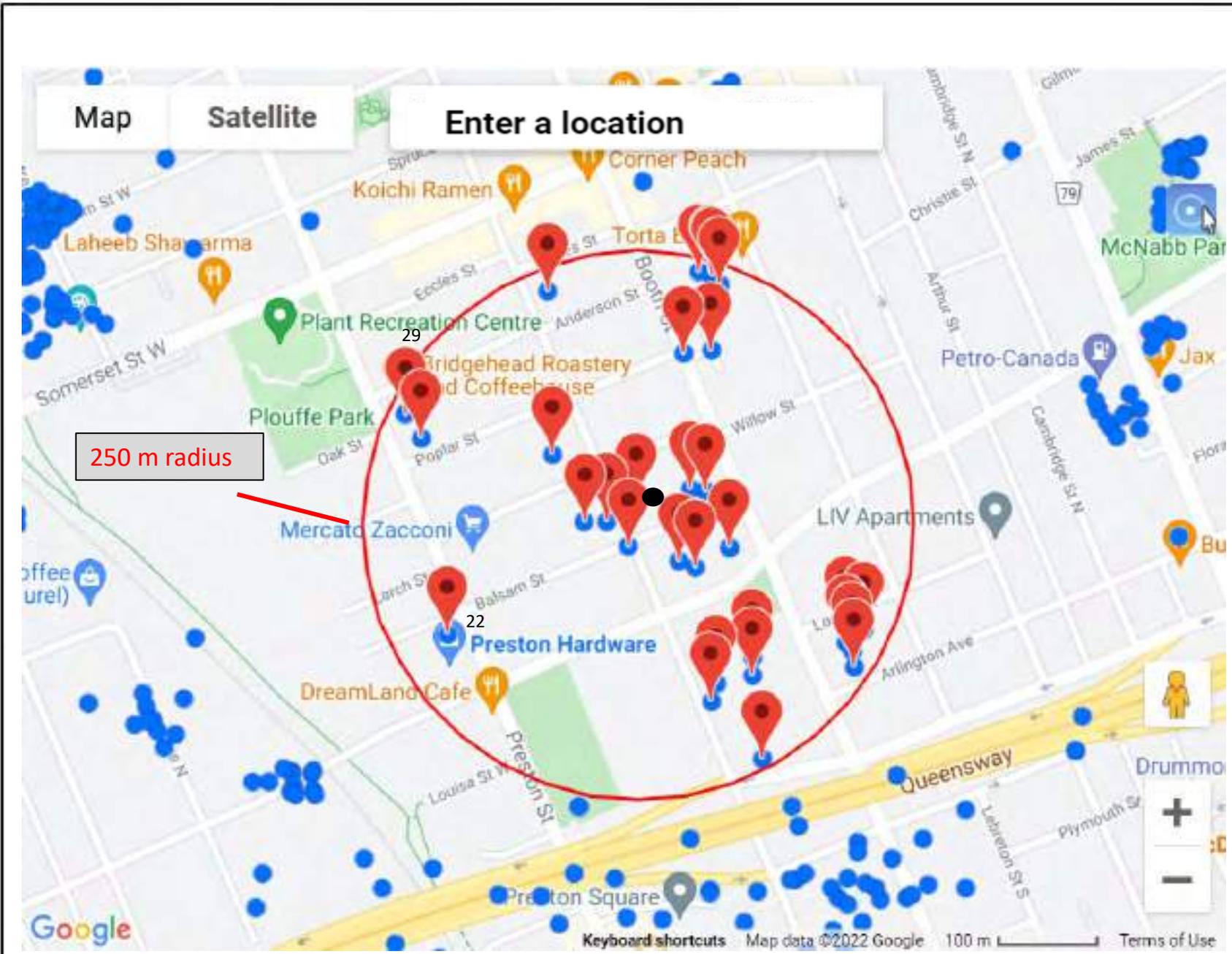


Figure 4:
Site APECs

Legend
 Phase One ESA & RSC Property 
 Site Building 

WELL SURVEY FIGURES





Legend

- Well records
- Subject property

Well Survey
Figure 1:
Site location



Source: Google Earth

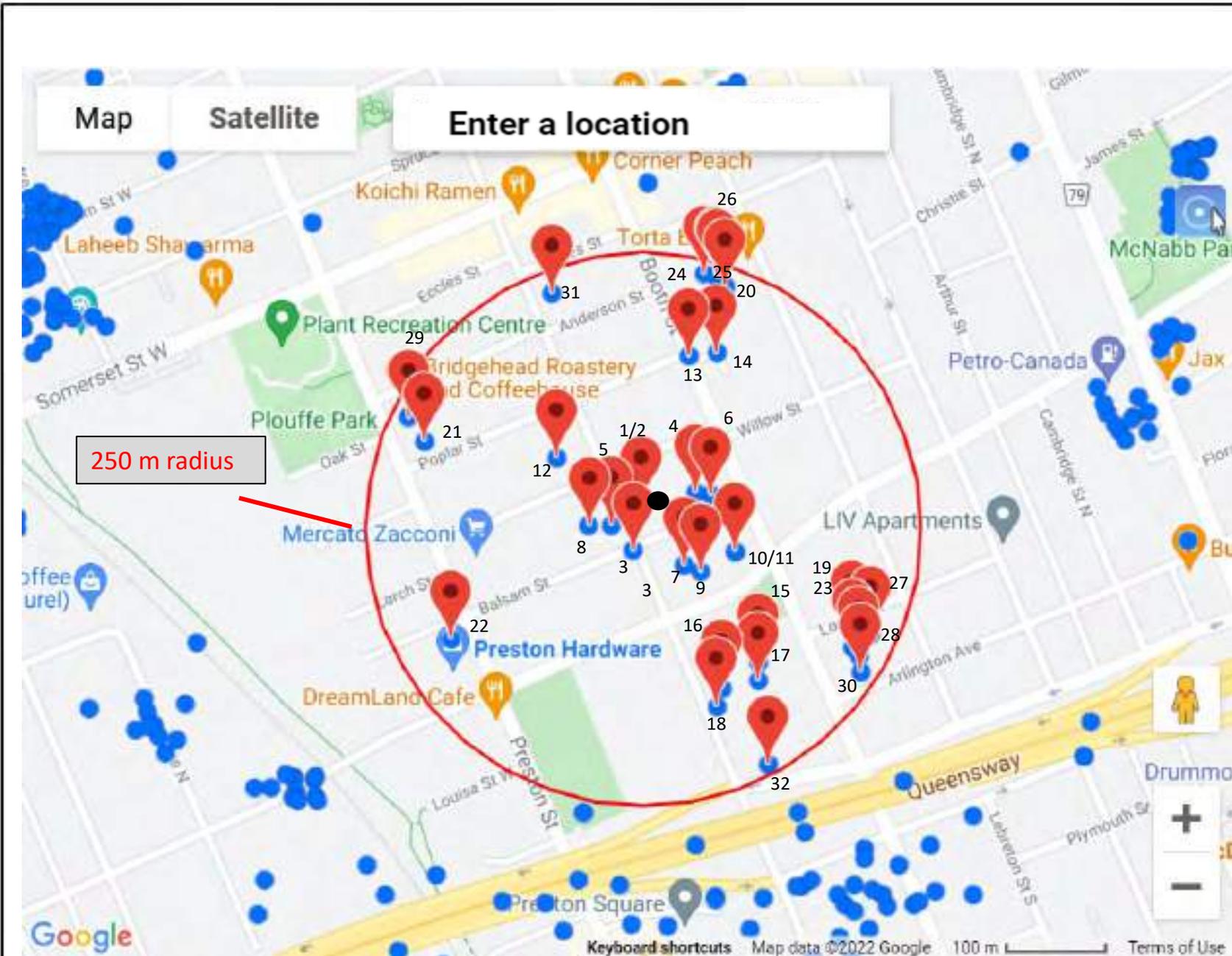
Project Site Address:
27 Balsam Street, 249,
261, 263 & 267 Rochester
Street

Drawn by: NP

Reviewer: PDR

Project #: R63048

Date: January 2022



250 m radius

Legend

- Well records
- Subject property

Well Survey
Figure 2:
Well Survey



Source: Google Earth

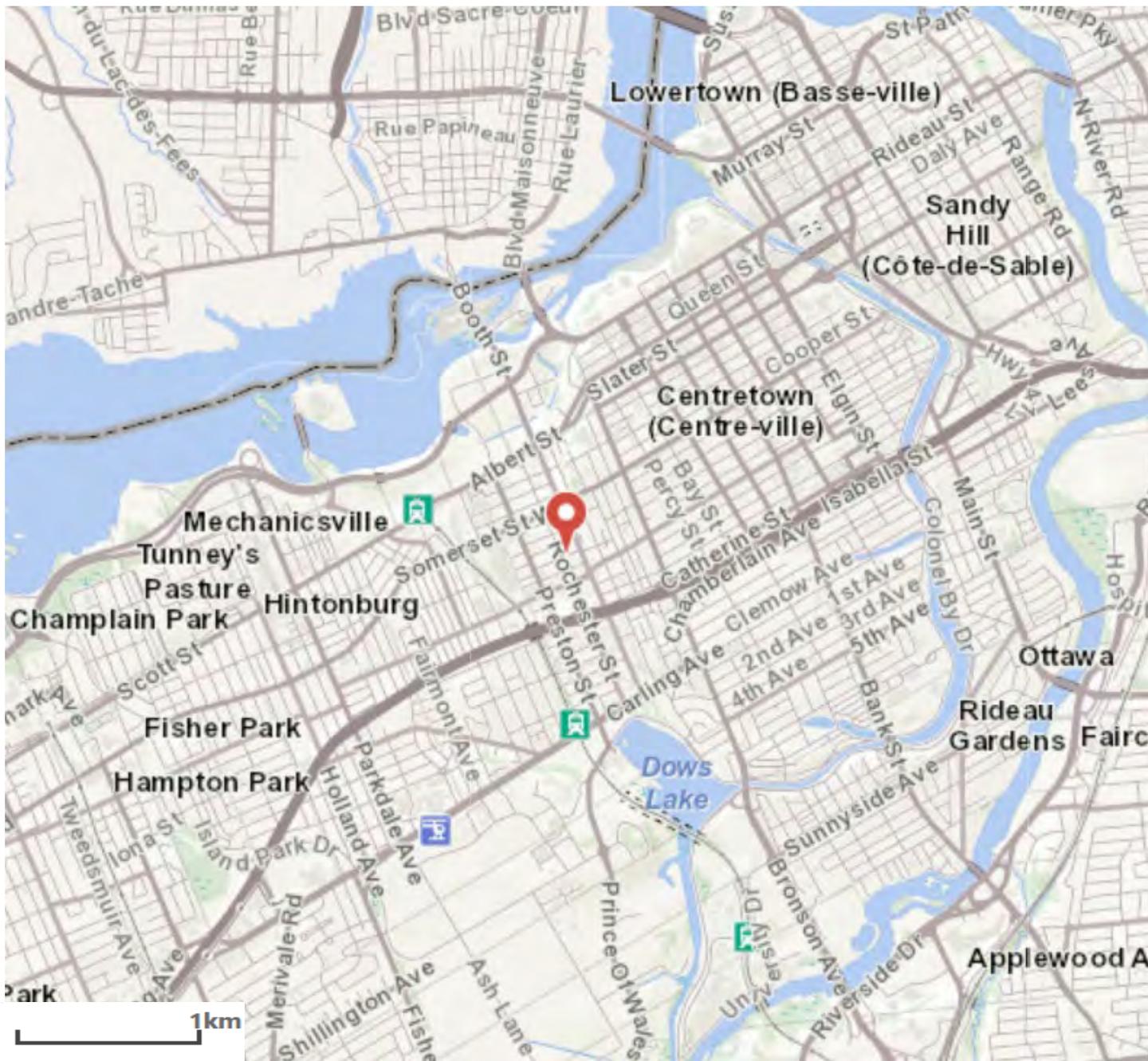
Project Site Address:
27 Balsam Street, 249,
261, 263 & 267 Rochester
Street

Drawn by: NP

Reviewer: PDR

Project #: R63048

Date: January 2022



Legend

- Subject property
- Wellhead Protection Area
- A
- B
- C
- C1
- D
- F

Well Survey Figure 3:
Well Head Protection Area



Source: Google Earth

Project Site Address:
27 Balsam Street, 249,
261, 263, & 267 Rochester
Street

Drawn by: NP
Reviewer: PDR
Project #: R63048
Date: January 2022



Legend

- Subject property
- Intake Protection Zone 2
- Intake Protection Zone 1

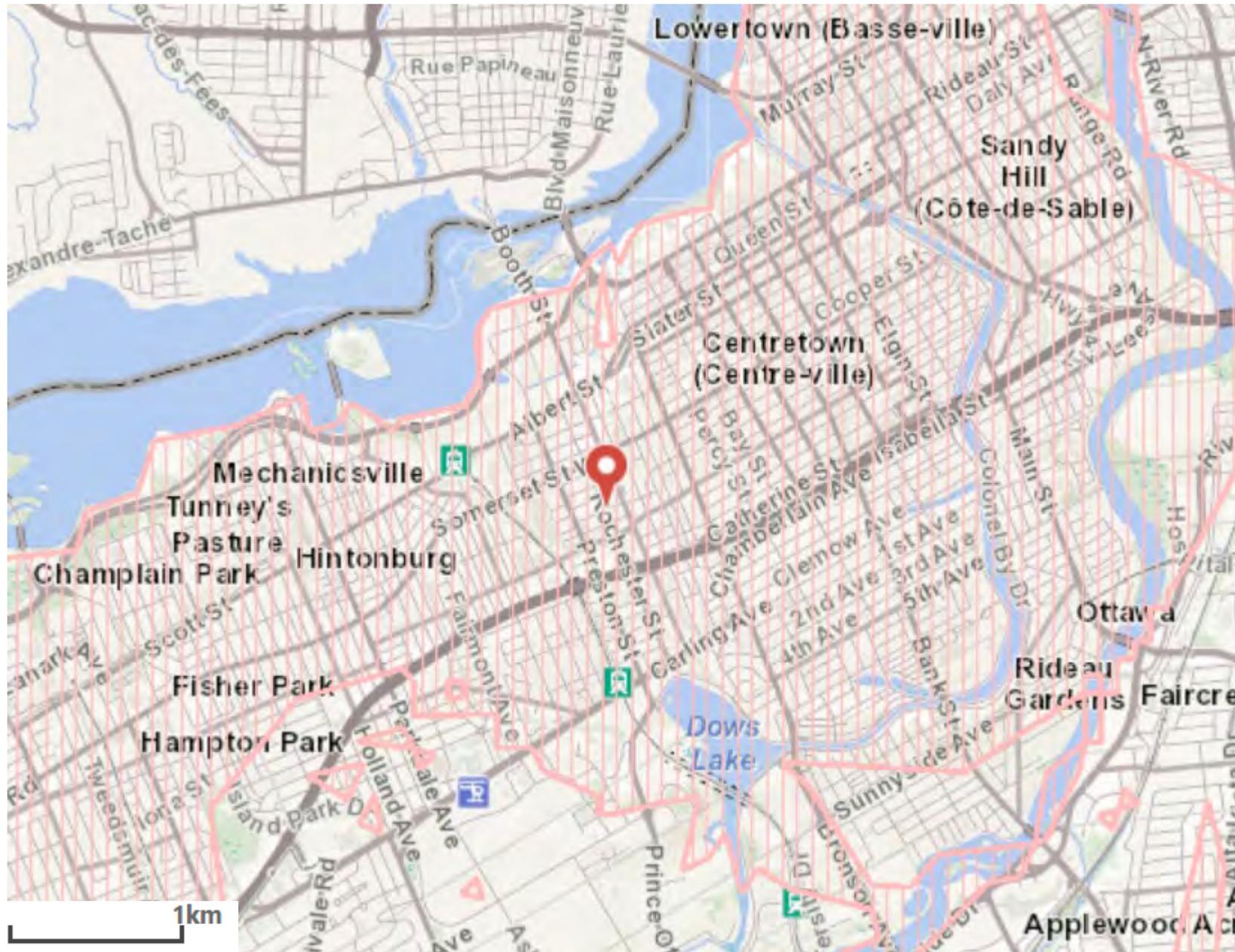
Well Survey Figure 4:
Intake Protection zones



Source: Google Earth

Project Site Address:
27 Balsam Street, 249,
261, 263 & 267 Rochester
Street

Drawn by: NP
Reviewer: PDR
Project #: R620348
Date: January 2022



Legend

- Subject property
- ▭ Areas of High Aquifer Vulnerability

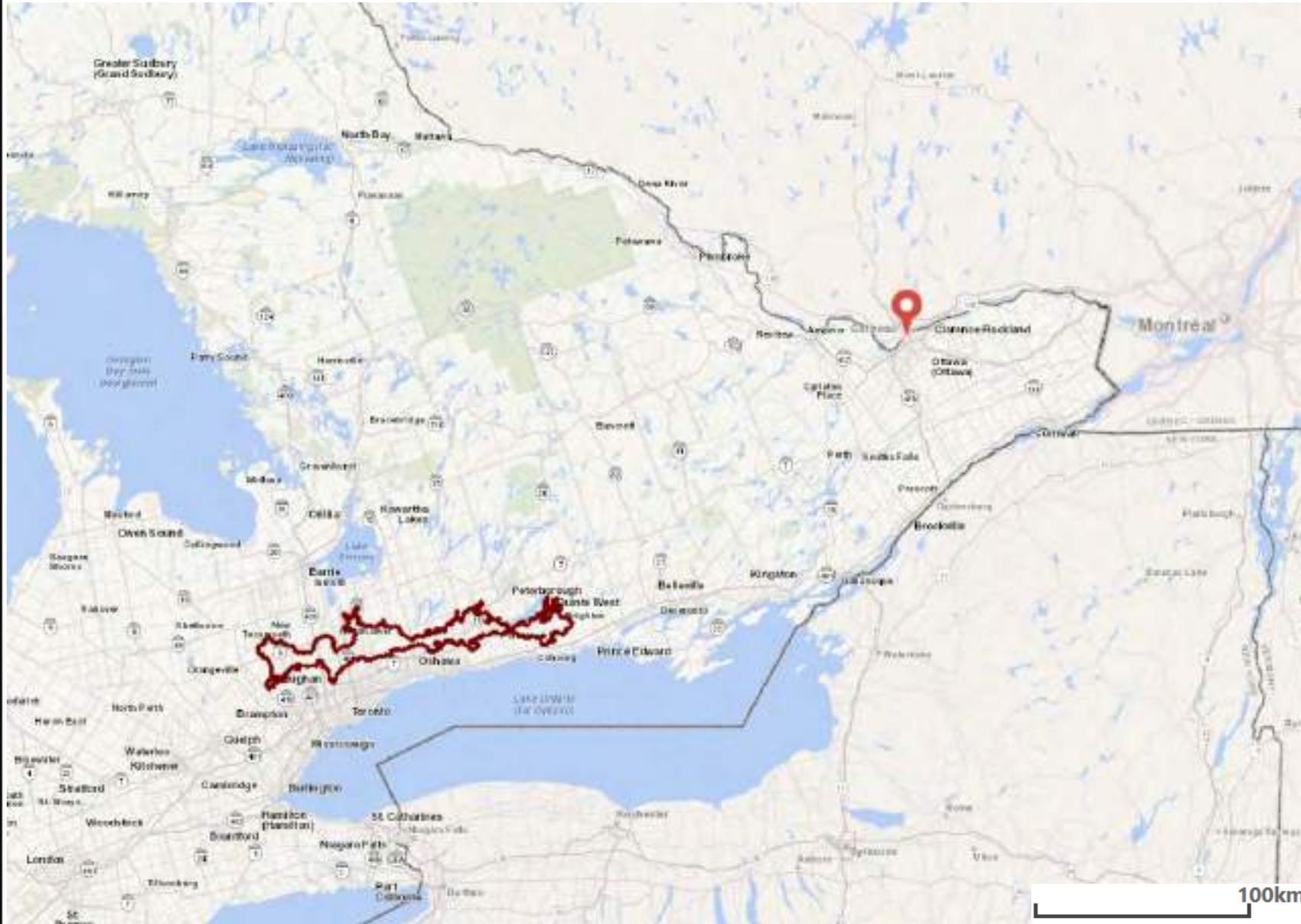
Well Survey Figure 5:
Areas of High Aquifer Vulnerability



Source: Google Earth

Project Site Address:
27 Balsam Street, 249,
261, 263 & 267 Rochester
Street

Drawn by: NP
Reviewer: PDR
Project #: R63048
Date: January 2022



Legend

- Well records
- Subject property
- Oak ridge Moraine

**Well Survey
Figure 6:
Oak Ridges
Moraine**



Source: Google Earth

Project Site Address:
27 Balsam Street, 249,
261, 263 & 267 Rochester
Street

Drawn by: NP

Reviewer: PDR

Project #: R63048

Date: January 2022

27 Balsam Street, 249, 261, 263 & 267 Rochester Street

Location Information

Zoom in to confirm your location and results

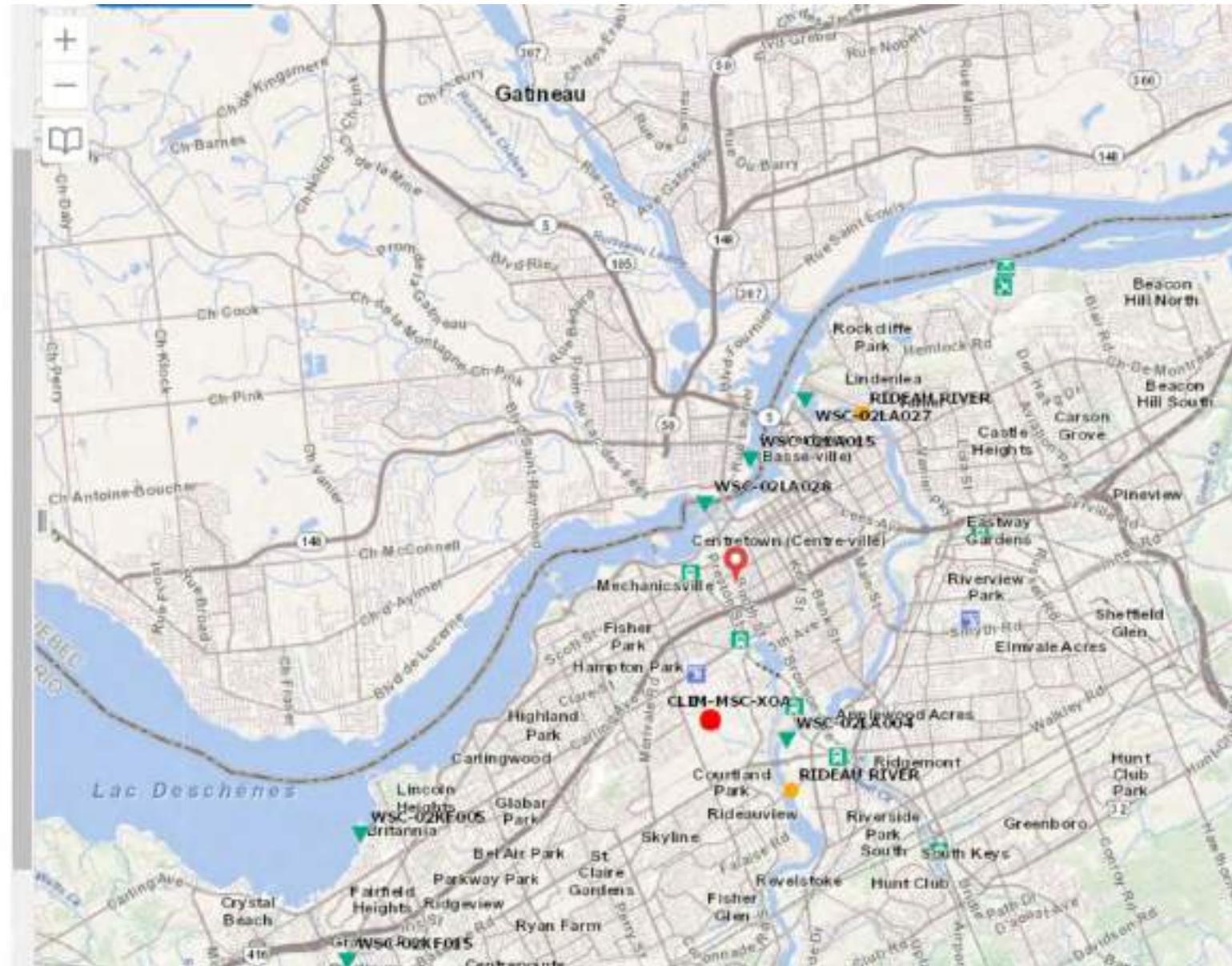
Latitude: **45.40639** Longitude: **-75.71030**
UTM Zone: **18**
Easting: **444414.5** Northing: **5028342.09**
Upper Tier Municipality: **N/A**
Lower Tier Municipality: **CITY OF OTTAWA**
Township Concession and Lot: **NEPEAN CON 1 ON OTTAWA RIVER LOT 39**
Assessment Parcel Address: **N/A**
Assessment Roll #: **N/A**
MECP District: **Ottawa**
MECP Region: **Eastern**

Source Protection Details for Location

Source Protection Area: **Rideau Valley**
[View Source Protection Plan](#)
Wellhead Protection Area: **No**
Wellhead Protection Area E (GUDI): **No**
Intake Protection Zone: **No**
Issue Contributing Area: **No**
Significant Groundwater Recharge Area: **No**
Highly Vulnerable Aquifer: **Yes**; score is **6**
Event Based Area: **No**
Wellhead Protection Area Q1: **No**
Wellhead Protection Area Q2: **No**
Intake Protection Zone Q: **No**

3km

Information is current as of **June 16, 2021**



27 Balsam Street, 249, 261, 263 & 267 Rochester Street

Location Information

Zoom in to confirm your location and results

Latitude: 45.40639 Longitude: -75.71030
UTM Zone: 18
Easting: 444414.5 Northing: 5028342.09
Upper Tier Municipality: N/A
Lower Tier Municipality: CITY OF OTTAWA
Township Concession and Lot: NEPEAN CON 1 ON OTTAWA RIVER LOT 39
Assessment Parcel Address: N/A
Assessment Roll #: N/A
MECP District: Ottawa
MECP Region: Eastern

Source Protection Details for Location

Source Protection Area: **Rideau Valley**
[View Source Protection Plan](#)
Wellhead Protection Area: **No**
Wellhead Protection Area E (GUDI): **No**
Intake Protection Zone: **No**
Issue Contributing Area: **No**
Significant Groundwater Recharge Area: **No**
Highly Vulnerable Aquifer: **Yes**; score is 6
Event Based Area: **No**
Wellhead Protection Area Q1: **No**
Wellhead Protection Area Q2: **No**
Intake Protection Zone Q: **No**

Information is current as of: June 16, 2021



APPENDIX 1 SITE PHOTOGRAPHS





Image 1 – Subject property, facing northwest



Image 2 – Subject property, facing southwest



Image 3 – Subject property, facing north



Image 4 – Subject property, facing west



Image 5 – Subject property, facing northeast



Image 6 – Subject property, facing southwest



Image 7 = Subject property, facing northeast

APPENDIX 2 TITLE INFORMATION



LAND
REGISTRY
OFFICE #4

04108-0283 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:39:46

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

PROPERTY DESCRIPTION: PT LT 261, PL 16 , AS IN NS1464 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK 34

PIN CREATION DATE:

1996/06/24

OWNERS' NAMES

3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
CR669688	1975/04/30	TRANSFER		*** COMPLETELY DELETED ***	OLIVIERO, GIACOMO OLIVIERO, BRUNO	
NS1464	1978/01/06	TRANSFER		*** COMPLETELY DELETED ***	OLIVIERO, GIACOMO	
N442371	1988/06/16	CHARGE		*** COMPLETELY DELETED ***	THE ROYAL BANK OF CANADA	
N512865	1989/11/22	CHARGE		*** COMPLETELY DELETED ***	ONTARIO MORTGAGE CORPORATION	
N572375	1991/04/22	AGREEMENT		*** COMPLETELY DELETED ***	THE CITY OF OTTAWA	

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ON 2022/01/21 AT 19:39:46

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REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
N695913	1994/06/16	AGREEMENT		*** COMPLETELY DELETED ***	THE CITY OF OTTAWA	
LT1019887	1997/01/06	CERT TAX ARREARS		*** COMPLETELY DELETED *** THE CORPORATION OF THE CITY OF OTTAWA		
LT1039713	1997/04/24	NOTICE		*** COMPLETELY DELETED *** THE CORPORATION OF THE CITY OF OTTAWA		
		<i>REMARKS: LT1019887</i>				
LT1108512	1998/03/03	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** THE CORPORATION OF THE CITY OF OTTAWA		
		<i>REMARKS: CANCELS LT1019887 & LT1039713.</i>				
OC119650	2002/09/17	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC128005	2002/10/07	DECLARATION		*** COMPLETELY DELETED *** CITY OF OTTAWA		
		<i>REMARKS: OC119650</i>				
OC295141	2004/01/29	CT TAX ARREAR CANC		*** COMPLETELY DELETED ***	CITY OF OTTAWA	
		<i>REMARKS: RE: OC119650</i>				
OC652801	2006/10/23	TRANSFER		*** COMPLETELY DELETED *** OLIVIERO, GIACOMO	FANTO AT 29 BALSAM INC.	
OC652802	2006/10/23	CHARGE		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	OLIVIERO, GIACOMO	
OC656253	2006/10/31	DISCH OF CHARGE		*** COMPLETELY DELETED *** ONTARIO MORTGAGE CORPORATION		
		<i>REMARKS: RE: N512865</i>				
OC852921	2008/05/16	CHARGE		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	CAISSE POPULAIRE TRILLIUM INC.	
OC852927	2008/05/16	NO ASSGN RENT GEN		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	CAISSE POPULAIRE TRILLIUM INC.	
		<i>REMARKS: OC852921</i>				
OC852962	2008/05/16	POSTPONEMENT		*** COMPLETELY DELETED ***		

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* 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
				OLIVIERO, GIACOMO	CAISSE POPULAIRE TRILLIUM INC.	
	<i>REMARKS: OC652802 TO OC852921</i>					
OC853572	2008/05/21	DISCH OF CHARGE		*** COMPLETELY DELETED *** ROYAL BANK OF CANADA		
	<i>REMARKS: RE: N442371</i>					
OC1329000	2012/01/30	APL (GENERAL)		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	<i>REMARKS: DELETING N695913</i>					
OC1330387	2012/02/02	APL (GENERAL)		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	<i>REMARKS: DELETING N572375</i>					
OC1343971	2012/03/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	UNOTOWNS INC.	
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION	
OC1344483	2012/03/22	POSTPONEMENT		*** COMPLETELY DELETED *** OLIVIERO, GIACOMO	ANDRIDGE CAPITAL CORPORATION	
	<i>REMARKS: OC652802 TO OC1344474</i>					
OC1369574	2012/06/05	DISCH OF CHARGE		*** COMPLETELY DELETED *** CAISSE POPULAIRE TRILLIUM INC.		
	<i>REMARKS: OC852921.</i>					
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
OC1669333	2015/03/26	CERTIFICATE		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
	<i>REMARKS: OC1658717</i>					
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP	
OC1735258	2015/10/29	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED ***		

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OFFICE #4

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ON 2022/01/21 AT 19:39:46

* 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
		REMARKS: DISCHARGE OC1700144		ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION	
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1344474. PLANNING ACT STATEMENTS.				
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC1891360	2017/05/26	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** CITY OF OTTAWA		
		REMARKS: OC1735258.				
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1870364				
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1870364				
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
		REMARKS: OC2335235				
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
OC2359751	2021/06/15	NOTICE	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
		REMARKS: OC2359498				
OC2361493	2021/06/17	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1870364				
OC2361494	2021/06/17	POSTPONEMENT		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
		REMARKS: OC2335235 TO OC2361493				
OC2361495	2021/06/17	POSTPONEMENT		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
		REMARKS: OC2359498 TO OC2361493				
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

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REGISTRY
OFFICE #4

04108-0284 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:40:26

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

PROPERTY DESCRIPTION: LT 261, PL 16 , EXCEPT NS1464 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK 34

PIN CREATION DATE:

1996/06/24

OWNERS' NAMES

3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
CR129964	1915/03/03	TRANSFER		*** COMPLETELY DELETED ***	CURRELL, CLARA	
OC119650	2002/09/17	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
		REMARKS: DELETED BY OC295141, NOV. 21/11, LM				
OC128005	2002/10/07	DECLARATION		*** COMPLETELY DELETED *** CITY OF OTTAWA		
		REMARKS: OC119650 DELETED BY OC295141, NOV. 21/11, LM				
OC295141	2004/01/29	CT TAX ARREAR CANC		*** COMPLETELY DELETED ***	CITY OF OTTAWA	
		REMARKS: RE: OC119650 DELETES BY OC119650 AND OC128005, NOV. 21/11, LM				
OC1318574	2011/12/21	APL VESTING ORDER		*** COMPLETELY DELETED ***		

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NOTE: ENSURE THAT YOUR PRINTOUT STATES THE TOTAL NUMBER OF PAGES AND THAT YOU HAVE PICKED THEM ALL UP.

LAND
REGISTRY
OFFICE #4

04108-0284 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:40:26

* 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	
OC1343971	2012/03/21	APL CH NAME OWNER		ONTARIO SUPERIOR COURT OF JUSTICE *** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	FANTO AT 29 BALSAM INC. UNOTOWNS INC.		
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION		
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** PATERSON GROUP INC.			
OC1669333	2015/03/26	CERTIFICATE		*** COMPLETELY DELETED *** PATERSON GROUP INC.			
		<i>REMARKS: OC1658717</i>					
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION		
		<i>REMARKS: DISCHARGE OC1700144</i>					
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C	
		<i>REMARKS: OC1344474. PLANNING ACT STATEMENTS.</i>					
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C	
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C	
		<i>REMARKS: OC1870364</i>					
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C	
		<i>REMARKS: OC1870364</i>					
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C	
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C	
		<i>REMARKS: OC2335235</i>					
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C	
OC2359751	2021/06/15	NOTICE	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C	

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REGISTRY
OFFICE #4

04108-0284 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:40:26

* 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
		<i>REMARKS: OC2359498</i>				
OC2361493	2021/06/17	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		<i>REMARKS: OC1870364</i>				
OC2361494	2021/06/17	POSTPONEMENT		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2335235 TO OC2361493</i>				
OC2361495	2021/06/17	POSTPONEMENT		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2359498 TO OC2361493</i>				
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

LAND
REGISTRY
OFFICE #4

04108-0282 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:41:15

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

PROPERTY DESCRIPTION: PT LT 260, PL 16 , PART 2 , 4R1493 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK 34

PIN CREATION DATE:

1996/06/24

OWNERS' NAMES

3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
4R1493	1975/10/06	PLAN REFERENCE				C
N467364	1988/12/01	TRANS POWER SALE		*** COMPLETELY DELETED ***	TABAK, ANDREW	
N516209	1989/12/13	CHARGE		*** COMPLETELY DELETED ***	THE MUNICIPAL SAVINGS AND LOAN CORPORATION	
N516210	1989/12/13	ASSIGNMENT GENERAL		*** COMPLETELY DELETED ***		
REMARKS: N516209						
LT1028872	1997/02/26	TRANSFER OF CHARGE		*** DELETED AGAINST THIS PROPERTY *** THE MUNICIPAL SAVINGS & LOAN CORPORATION BY ITS LIQUIDATOR NATIONAL BANK OF CANADA	NATIONAL BANK OF CANADA	
REMARKS: MULTIPLE						

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

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* 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
LT1064964	1997/08/07	CHARGE		*** COMPLETELY DELETED *** TABAK, ANDREW	PRAGER, SAMUEL	
LT1210230	1999/07/09	CHARGE		*** COMPLETELY DELETED *** MANCINI, TONY	CAISSE POPULAIRE CHAMPLAIN D'OTTAWA LIMITEE	
LT1210229	1999/07/09	TRANS POWER SALE		*** COMPLETELY DELETED *** NATIONAL BANK OF CANADA	MANCINI, TONY	
		REMARKS: N516209, N467364, N516210, LT1028872, LT1064964				
LT1371986	2001/03/30	CHARGE		*** COMPLETELY DELETED *** MANCINI, TONY	BANK OF MONTREAL	
OC14547	2001/11/02	TRANSFER		*** COMPLETELY DELETED *** MANCINI, TONY	MANCINI, TONY MCELHERAN, BRENT	
OC75220	2002/05/29	DISCH OF CHARGE		*** COMPLETELY DELETED *** CAISSE POPULAIRE HERITAGE D'OTTAWA-OUEST INC.		
		REMARKS: RE: LT1210230				
OC77328	2002/05/31	TRANSFER		*** COMPLETELY DELETED *** MANCINI, TONY MCELHERAN, BRENT	NGUYEN, HANH HUU NHAN, DUNG THUY	
		REMARKS: PLANNING ACT STATEMENTS				
OC77329	2002/05/31	CHARGE		*** COMPLETELY DELETED *** NGUYEN, HANH HUU NHAN, DUNG THUY	SCOTIA MORTGAGE CORPORATION	
OC77330	2002/05/31	CHARGE		*** COMPLETELY DELETED *** NGUYEN, HANH HUU NHAN, DUNG THUY	MANCINI, TONY MCELHERAN, BRENT	
OC96477	2002/07/22	DISCH OF CHARGE		*** COMPLETELY DELETED *** BANK OF MONTREAL		
		REMARKS: RE: LT1371986				
OC502245	2005/08/24	DISCH OF CHARGE		*** COMPLETELY DELETED *** MANCINI, TONY MCELHERAN, BRENT		
		REMARKS: RE: OC77330				

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* 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
OC504653	2005/08/30	TRANSFER		*** COMPLETELY DELETED *** NGUYEN, HANH HUU NHAN, DUNG THUY	GOSS, COREY	
		<i>REMARKS: PLANNING ACT STATEMENTS</i>				
OC504654	2005/08/30	CHARGE		*** COMPLETELY DELETED *** GOSS, COREY	CIBC MORTGAGES INC.	
OC508486	2005/09/08	DISCH OF CHARGE		*** COMPLETELY DELETED *** SCOTIA MORTGAGE CORPORATION		
		<i>REMARKS: RE: OC77329</i>				
OC1056717	2009/11/30	TRANSFER		*** COMPLETELY DELETED *** GOSS, COREY	261 ROCHESTER STREET INC.	
		<i>REMARKS: PLANNING ACT STATEMENTS</i>				
OC1056718	2009/11/30	CHARGE		*** COMPLETELY DELETED *** 261 ROCHESTER STREET INC.	H & J HOLDINGS INC.	
OC1062386	2009/12/16	DISCH OF CHARGE		*** COMPLETELY DELETED *** CIBC MORTGAGES INC.		
		<i>REMARKS: OC504654.</i>				
OC1165803	2010/09/30	CHARGE		*** COMPLETELY DELETED *** 261 ROCHESTER STREET INC.	KELLY, LAWRENCE PATRICK	
OC1343969	2012/03/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** 261 ROCHESTER STREET INC.	UNOTOWNS INC.	
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION	
OC1344476	2012/03/22	DISCH OF CHARGE		*** COMPLETELY DELETED *** H & J HOLDINGS INC.		
		<i>REMARKS: OC1056718.</i>				
OC1344477	2012/03/22	DISCH OF CHARGE		*** COMPLETELY DELETED *** KELLY, LAWRENCE PATRICK		
		<i>REMARKS: OC1165803.</i>				
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** PATERSON GROUP INC.		

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REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
OC1669333	2015/03/26	CERTIFICATE		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
	<i>REMARKS: OC1658717</i>					
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP	
OC1743255	2015/11/24	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION	
	<i>REMARKS: DISCHARGE OC1700144</i>					
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1344474. PLANNING ACT STATEMENTS.</i>					
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC1891358	2017/05/26	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	<i>REMARKS: OC1743255.</i>					
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
	<i>REMARKS: OC2335235</i>					
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
OC2359751	2021/06/15	NOTICE	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
	<i>REMARKS: OC2359498</i>					
OC2361493	2021/06/17	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C

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REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/ CHKD
		<i>REMARKS: OC1870364</i>				
OC2361494	2021/06/17	POSTPONEMENT		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2335235 TO OC2361493</i>				
OC2361495	2021/06/17	POSTPONEMENT		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2359498 TO OC2361493</i>				
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

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

PROPERTY DESCRIPTION: PT LT 260, PL 16 , PART 1 , 4R1493 , T/W N631371 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK 34

PIN CREATION DATE:

1996/06/24

OWNERS' NAMES

3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
4R1493	1975/10/06	PLAN REFERENCE				C
NS110965	1981/02/26	NOTICE OF LEASE		*** COMPLETELY DELETED ***	NARDI, LEOPARDO CEFALONI, ROBERTO	
N420212	1987/12/11	CONSTRUCTION LIEN		*** COMPLETELY DELETED ***		
N631371	1992/08/31	TRANSFER		*** COMPLETELY DELETED ***	VIETNAMESE CANADIAN CENTRE	
N681634	1993/12/23	CHARGE		*** COMPLETELY DELETED ***	GRIECO, ANTONIO GRIECO, VINCENZA	

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04108-0281 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:41:46

* 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
LT1014669	1996/12/03	DISCH OF CHARGE		*** COMPLETELY DELETED *** GRIECO, ANTONIO GRIECO, VINCENZA		
		<i>REMARKS: RE: N681634</i>				
LT1014670	1996/12/03	CHARGE		*** COMPLETELY DELETED *** VIETNAMESE CANADIAN CENTRE	NATIONAL BANK OF CANADA	
OC468206	2005/05/31	DISCH OF CHARGE		*** COMPLETELY DELETED *** NATIONAL BANK OF CANADA		
		<i>REMARKS: RE: LT1014670</i>				
OC660052	2006/11/14	CHARGE		*** COMPLETELY DELETED *** VIETNAMESE CANADIAN CENTRE	THE TORONTO-DOMINION BANK	
OC1093070	2010/04/01	APL (GENERAL)		*** COMPLETELY DELETED *** VIETNAMESE CANADIAN CENTRE		
		<i>REMARKS: DELETING N420212</i>				
OC1093071	2010/04/01	APL (GENERAL)		*** COMPLETELY DELETED *** VIETNAMESE CANADIAN CENTRE		
		<i>REMARKS: DELETING NS110965</i>				
OC1165801	2010/09/30	TRANSFER		*** COMPLETELY DELETED *** VIETNAMESE CANADIAN CENTRE	249 ROCHESTER STREET INC.	
		<i>REMARKS: PLANNING ACT STATEMENTS</i>				
OC1165802	2010/09/30	CHARGE		*** COMPLETELY DELETED *** 249 ROCHESTER STREET INC.	KELLY, LAWRENCE PATRICK	
OC1168503	2010/10/07	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE TORONTO-DOMINION BANK		
		<i>REMARKS: OC660052.</i>				
OC1343970	2012/03/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** 249 ROCHESTER STREET INC.	UNOTOWNS INC.	
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION	
OC1344475	2012/03/22	DISCH OF CHARGE		*** COMPLETELY DELETED *** KELLY, LAWRENCE PATRICK		
		<i>REMARKS: OC1165802.</i>				

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* 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
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
OC1669333	2015/03/26	CERTIFICATE		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
		REMARKS: OC1658717				
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP	
OC1754565	2016/01/07	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION	
		REMARKS: DISCHARGE OC1700144				
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1344474. PLANNING ACT STATEMENTS.				
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC1891357	2017/05/26	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** CITY OF OTTAWA		
		REMARKS: OC1754565.				
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1870364				
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		REMARKS: OC1870364				
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
		REMARKS: OC2335235				
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
OC2359751	2021/06/15	NOTICE	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C

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* 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
		<i>REMARKS: OC2359498</i>				
OC2361493	2021/06/17	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
		<i>REMARKS: OC1870364</i>				
OC2361494	2021/06/17	POSTPONEMENT		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2335235 TO OC2361493</i>				
OC2361495	2021/06/17	POSTPONEMENT		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
		<i>REMARKS: OC2359498 TO OC2361493</i>				
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

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

LAND
REGISTRY
OFFICE #4

04108-0280 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:42:19

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

PROPERTY DESCRIPTION: PT LT 259, PL 16 , BEING THE W1/2, S/T N329529 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK 34

PIN CREATION DATE:

1996/06/24

OWNERS' NAMES

3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
4R1493	1975/10/06	PLAN REFERENCE				C
N442883	1988/06/21	TRANSFER		*** COMPLETELY DELETED ***	GRIECO, ANTONIO GRIECO, VINCENZA	
OC66090	2002/05/01	TRANSFER		*** COMPLETELY DELETED *** GRIECO, ANTONIO GRIECO, VINCENZA	LI, YAFEI GUO, FANG	
OC66091	2002/05/01	CHARGE		*** COMPLETELY DELETED *** LI, YAFEI GUO, FANG	THE BANK OF NOVA SCOTIA	
OC316698	2004/04/06	TRANSFER		*** COMPLETELY DELETED *** GUO, FANG	MEADE, CLARK EDWARD	

NOTE: ADJOINING PROPERTIES SHOULD BE INVESTIGATED TO ASCERTAIN DESCRIPTIVE INCONSISTENCIES, IF ANY, WITH DESCRIPTION REPRESENTED FOR THIS PROPERTY.

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LAND
REGISTRY
OFFICE #4

04108-0280 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:42:19

* 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
				LI, YAFEI	CHICHIRAU, ALEXANDRU	
	<i>REMARKS: PLANNING ACT STATEMENTS.</i>					
OC316699	2004/04/06	CHARGE		*** COMPLETELY DELETED *** MEADE, CLARK EDWARD CHICHIRAU, ALEXANDRU	CIBC MORTGAGES INC., TRADING AS FIRSTLINE MORTGAGES	
OC319607	2004/04/16	DISCH OF CHARGE		*** COMPLETELY DELETED *** THE BANK OF NOVA SCOTIA		
	<i>REMARKS: RE: OC66091</i>					
OC606127	2006/06/23	TRANSFER		*** COMPLETELY DELETED *** CHICHIRAU, ALEXANDRU MEADE, CLARK EDWARD	KENNEDY, BLAINE RANSON	
	<i>REMARKS: PLANNING ACT STATEMENTS</i>					
OC606128	2006/06/23	CHARGE		*** COMPLETELY DELETED *** KENNEDY, BLAINE RANSON	FIRST NATIONAL FINANCIAL CORPORATION	
OC613434	2006/07/11	DISCH OF CHARGE		*** COMPLETELY DELETED *** CIBC MORTGAGES INC., TRADING AS FIRSTLINE MORTGAGES		
	<i>REMARKS: RE: OC316699</i>					
OC809797	2007/12/19	TRANSFER		*** COMPLETELY DELETED *** KENNEDY, BLAINE RANSON	FANTO AT 29 BALSAM INC.	
OC809798	2007/12/19	CHARGE		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	CIBC MORTGAGES INC. TRADING AS FIRSTLINE MORTGAGES	
OC809805	2007/12/19	NO ASSGN RENT GEN		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	CIBC MORTGAGES INC. TRADING AS FIRSTLINE MORTGAGES	
	<i>REMARKS: OC809798</i>					
OC1195600	2010/12/30	CHARGE		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	HOME TRUST COMPANY	
OC1195601	2010/12/30	NO ASSGN RENT GEN		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	HOME TRUST COMPANY	
	<i>REMARKS: OC1195600</i>					
OC1197766	2011/01/10	DISCH OF CHARGE		*** COMPLETELY DELETED *** FIRST NATIONAL FINANCIAL CORPORATION		
	<i>REMARKS: OC606128.</i>					

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REGISTRY
OFFICE #4

04108-0280 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:42:19

* 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
OC1200150	2011/01/19	DISCH OF CHARGE		*** COMPLETELY DELETED *** CIBC MORTGAGES INC. TRADING AS FIRSTLINE MORTGAGES		
	<i>REMARKS: OC809798.</i>					
OC1343971	2012/03/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	UNOTOWNS INC.	
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION	
OC1365067	2012/05/25	DISCH OF CHARGE		*** COMPLETELY DELETED *** HOME TRUST COMPANY		
	<i>REMARKS: OC1195600.</i>					
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
OC1669333	2015/03/26	CERTIFICATE		*** COMPLETELY DELETED *** PATERSON GROUP INC.		
	<i>REMARKS: OC1658717</i>					
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP	
OC1743258	2015/11/24	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION	
	<i>REMARKS: DISCHARGE OC1700144</i>					
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1344474. PLANNING ACT STATEMENTS.</i>					
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC1891350	2017/05/26	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	<i>REMARKS: OC1743258.</i>					
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					

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OFFICE #4

04108-0280 (LT)

PREPARED FOR CLIENT
ON 2022/01/21 AT 19:42:19

* 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
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
	<i>REMARKS: OC2335235</i>					
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
OC2359751	2021/06/15	NOTICE	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
	<i>REMARKS: OC2359498</i>					
OC2361493	2021/06/17	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2361494	2021/06/17	POSTPONEMENT		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
	<i>REMARKS: OC2335235 TO OC2361493</i>					
OC2361495	2021/06/17	POSTPONEMENT		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
	<i>REMARKS: OC2359498 TO OC2361493</i>					
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

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REGISTRY
OFFICE #4

04108-0263 (LT)

PREPARED FOR CLIENT
ON 2022/02/06 AT 20:06:22

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

PROPERTY DESCRIPTION: LT 210, PL 14 ; OTTAWA/NEPEAN

PROPERTY REMARKS:

ESTATE/QUALIFIER:
FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:
FIRST CONVERSION FROM BOOK 29

PIN CREATION DATE:
1996/06/24

OWNERS' NAMES
3N GROUP HOLDINGS INC.

CAPACITY SHARE

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO	CERT/CHKD
<p>**EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/06/24 ON THIS PIN**</p> <p>**WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/06/24**</p> <p>** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE 1996/06/21 **</p> <p>**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:</p> <p>** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *</p> <p>** AND ESCHEATS OR FORFEITURE TO THE CROWN.</p> <p>** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF</p> <p>** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY</p> <p>** CONVENTION.</p> <p>** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.</p> <p>**DATE OF CONVERSION TO LAND TITLES: 1996/06/24 **</p>						
N702589	1994/08/26	TRANSFER		*** COMPLETELY DELETED ***	PHUNG, BAO THIEN	
OC1301537	2011/11/01	TRANSFER		*** COMPLETELY DELETED *** PHUNG, BAO THIEN	FANTO AT 29 BALSAM INC.	
OC1301538	2011/11/01	CHARGE		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	ANDRIDGE CAPITAL CORPORATION	
OC1343971	2012/03/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** FANTO AT 29 BALSAM INC.	UNOTOWNS INC.	
OC1344474	2012/03/22	CHARGE		*** COMPLETELY DELETED *** UNOTOWNS INC.	ANDRIDGE CAPITAL CORPORATION	
OC1658717	2015/02/10	CONSTRUCTION LIEN		*** COMPLETELY DELETED ***		

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REGISTRY
OFFICE #4

04108-0263 (LT)

PREPARED FOR CLIENT
ON 2022/02/06 AT 20:06:22

* 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
OC1669333	2015/03/26	CERTIFICATE		PATERSON GROUP INC. *** COMPLETELY DELETED *** PATERSON GROUP INC.		
	<i>REMARKS: OC1658717</i>					
OC1700144	2015/07/13	APL COURT ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	KELLY SANTINI LLP	
OC1735247	2015/10/29	CERT TAX ARREARS		*** COMPLETELY DELETED *** CITY OF OTTAWA		
OC1870362	2017/02/27	APL AMEND ORDER		*** COMPLETELY DELETED *** ONTARIO SUPERIOR COURT OF JUSTICE	ANDRIDGE CAPITAL CORPORATION	
	<i>REMARKS: DISCHARGE OC1700144</i>					
OC1870363	2017/02/27	TRANS POWER SALE	\$1,350,000	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1344474. PLANNING ACT STATEMENTS.</i>					
OC1870364	2017/02/27	CHARGE	\$1,000,000	3N GROUP HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC1870365	2017/02/27	DISCH OF CHARGE		*** COMPLETELY DELETED *** ANDRIDGE CAPITAL CORPORATION		
	<i>REMARKS: OC1301538.</i>					
OC1891353	2017/05/26	CT TAX ARREAR CANC		*** COMPLETELY DELETED *** CITY OF OTTAWA		
	<i>REMARKS: OC1735247.</i>					
OC1975458	2018/02/28	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2194703	2020/02/21	NOTICE	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
	<i>REMARKS: OC1870364</i>					
OC2335235	2021/04/13	CHARGE	\$1,046,588	3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
OC2357561	2021/06/09	NOTICE		3N GROUP HOLDINGS INC.	DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	C
	<i>REMARKS: OC2335235</i>					
OC2359498	2021/06/14	CHARGE	\$400,000	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C

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LAND
REGISTRY
OFFICE #4

04108-0263 (LT)

PREPARED FOR CLIENT
ON 2022/02/06 AT 20:06:22

* 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
OC2359751	2021/06/15	NOTICE <i>REMARKS: OC2359498</i>	\$1	3N GROUP HOLDINGS INC.	BIG SEA ENGINEERING AND CONSTRUCTION INC.	C
OC2361493	2021/06/17	NOTICE <i>REMARKS: OC1870364</i>	\$1	ANDRIDGE CAPITAL CORPORATION	3N GROUP HOLDINGS INC.	C
OC2361494	2021/06/17	POSTPONEMENT <i>REMARKS: OC2335235 TO OC2361493</i>		DUTHIE, SARBJIT MYTHREEDIAMONDS HOLDINGS INC.	ANDRIDGE CAPITAL CORPORATION	C
OC2361495	2021/06/17	POSTPONEMENT <i>REMARKS: OC2359498 TO OC2361493</i>		BIG SEA ENGINEERING AND CONSTRUCTION INC.	ANDRIDGE CAPITAL CORPORATION	C
OC2394484	2021/09/01	NOTICE	\$1	CITY OF OTTAWA	3N GROUP HOLDINGS INC.	C
OC2432430	2021/12/06	CHARGE	\$100,000	3N GROUP HOLDINGS INC.	CASAGRANDE, ROGER	C

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APPENDIX 3 AERIAL PHOTOGRAPHS





HISTORICAL
AERIALS

Project Property: R63048
R63048
Ottawa ON K1R 7M9

Project No:

Requested By: Rubicon Environmental (2008) Inc.

Order No: 22010600157

Date Completed: January 18, 2022

Decade	Year	Image Scale	Source
1920	1928	10000	City of Ottawa
1930	1938	10000	NAPL
1940	1945	15000	NAPL
1950	1953	15000	NAPL
1960	1965	10000	City of Ottawa
1970	1976	10000	City of Ottawa
1980	1985	15000	NAPL
1990	1991	10000	City of Ottawa
2000	2002	10000	City of Ottawa
2010	2011	10000	City of Ottawa

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Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com



0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1928
Source: City of Ottawa
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1938
Source: NAPL
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1945
Source: NAPL
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1953
Source: NAPL
Map Scale: 1: 10000
Comments:



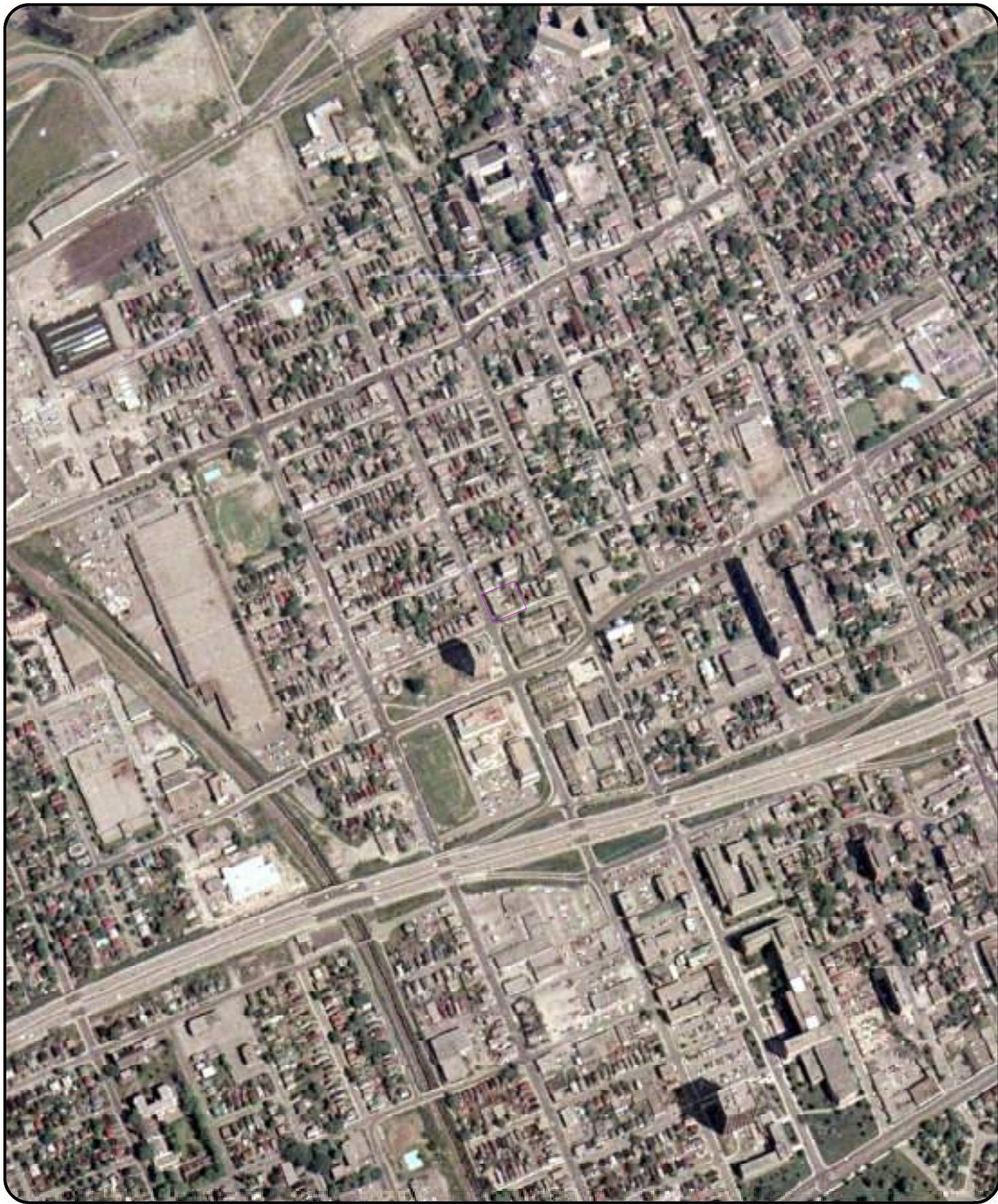


0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1965
Source: City of Ottawa
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1976
Source: City of Ottawa
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1985
Source: NAPL
Map Scale: 1: 10000
Comments:



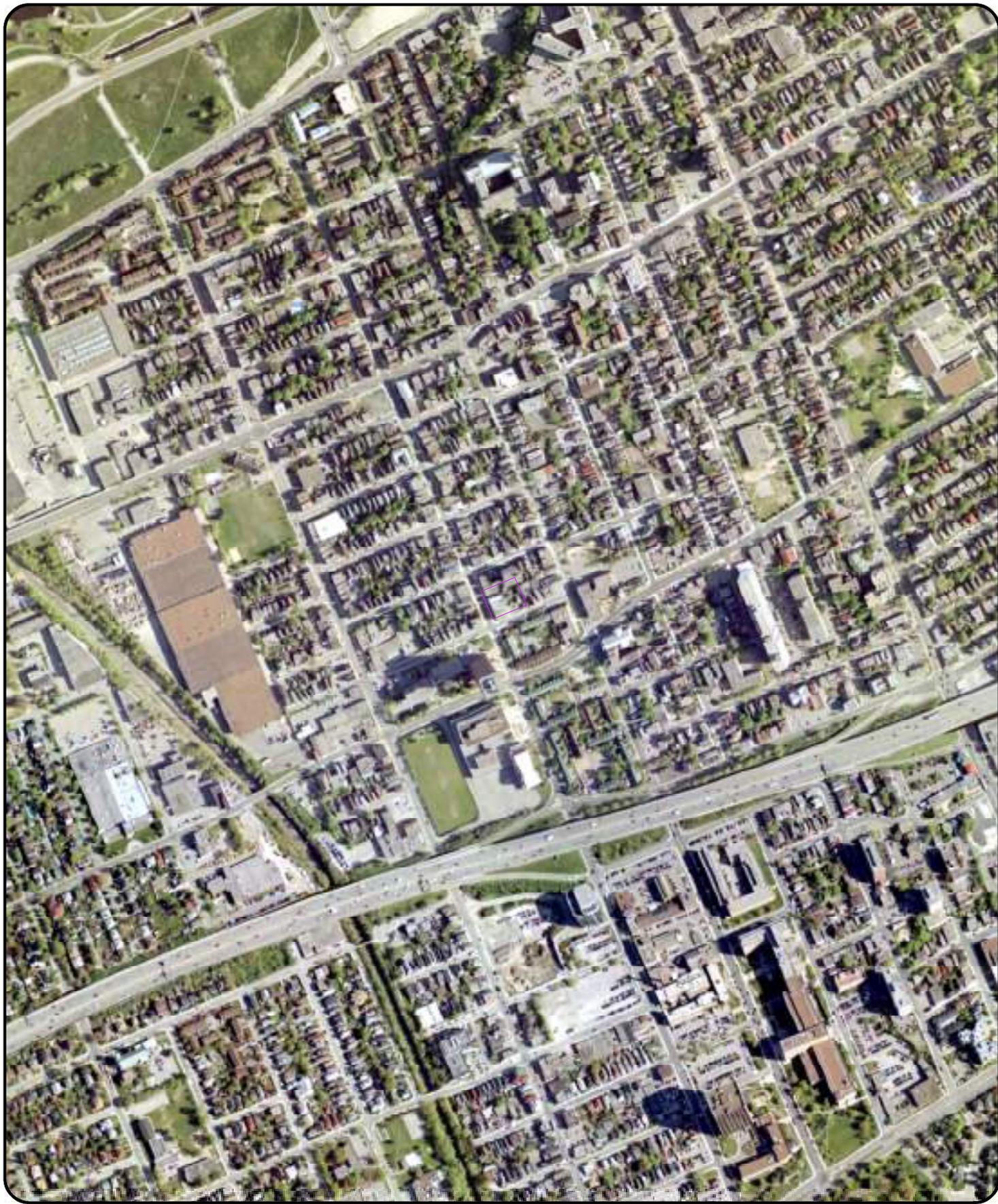


0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 1991
Source: City of Ottawa
Map Scale: 1: 10000
Comments:



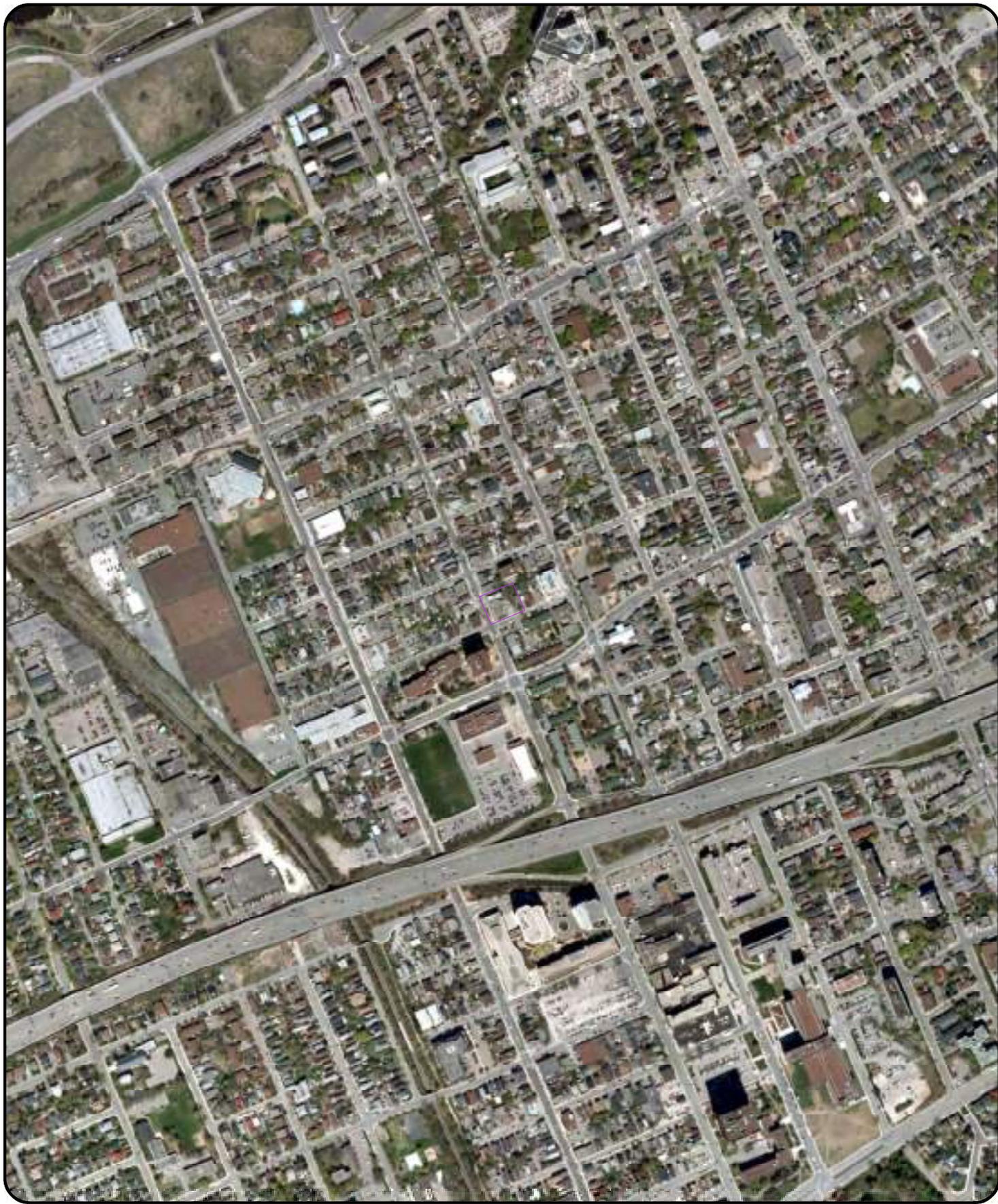


0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 2002
Source: City of Ottawa
Map Scale: 1: 10000
Comments:





0 0.125 0.25 0.5
Kilometers

Order Number: 22010600157

Year: 2011
Source: City of Ottawa
Map Scale: 1: 10000
Comments:



APPENDIX 4 FIRE INSURANCE PLANS





enviroscan



An SCM Company

175 Commerce Valley Drive W
Markham, Ontario L3T 7Z3

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

Report Completed By:

Swati

Site Address:

267 rochester street Ottawa On Canada

Project No:

22010600157

Opta Order ID:

102174

Requested by:
Eleanor Goolab
ERIS

Date Completed:
2/2/2022 9:49:36 AM



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Opta Historical Environmental Services EnviroscanTM 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

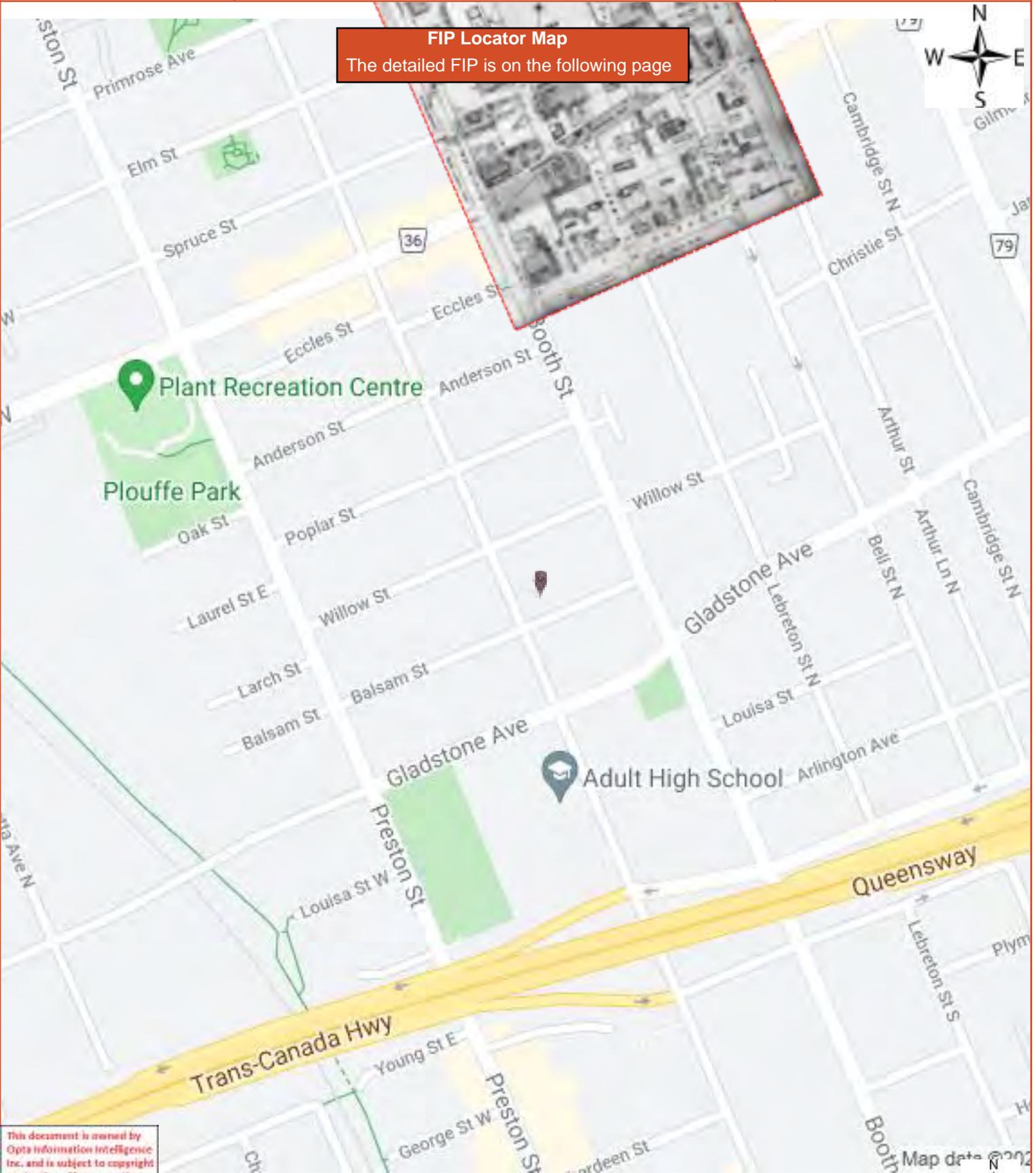
In the event of any conflicts or inconsistencies between the provisions hereof and the Reports, the rights and obligations of the parties shall be deemed to be governed by the request form, which shall be the paramount document.

Law

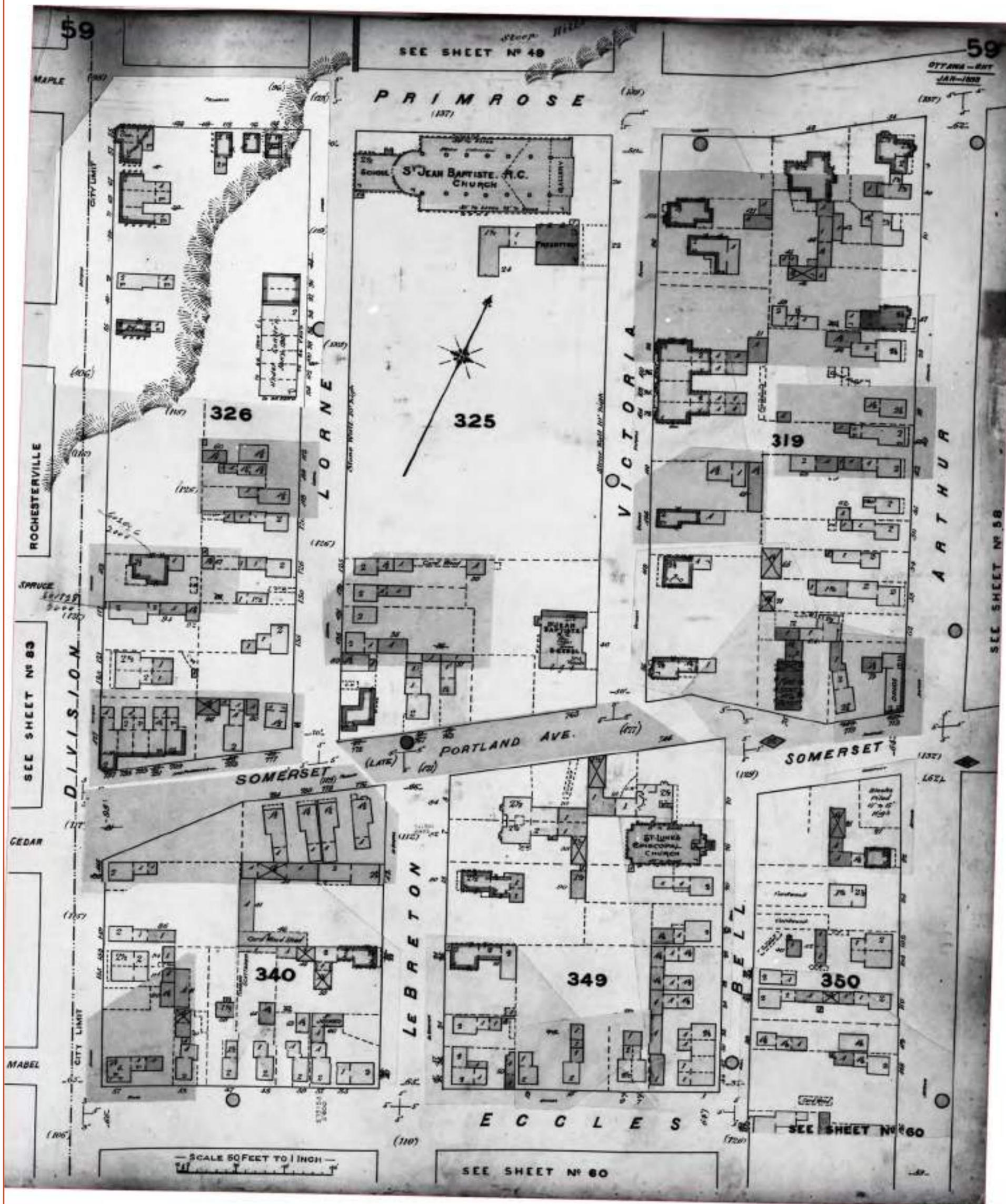
This agreement shall be governed by and construed in accordance with the laws of the Province of Ontario and the laws of Canada applicable therein.

Page	Report Title
6	(1895) Volume: Ottawa Volume 1 Firemap: 59
8	(1895) Volume: Ottawa Volume 1 Firemap: 60
10	(1895) Volume: Ottawa Volume 1 Firemap: 83
12	(1895) Volume: Ottawa Volume 1 Firemap: 84
14	(1895) Volume: Ottawa Volume 1 Firemap: 85
16	(1895) Volume: Ottawa Volume 1 Firemap: 85
18	(1895) Volume: Ottawa Volume 1 Firemap: 86
20	(1901) Volume: Ottawa Volume 1 Firemap: 119
22	(1901) Volume: Ottawa Volume 1 Firemap: 120
24	(1901) Volume: Ottawa Volume 1 Firemap: 121
26	(1901) Volume: Ottawa Volume 1 Firemap: 122
28	(1895) Volume: Ottawa Volume 1 Firemap: 105A
30	(1912) Volume: Ottawa Volume 2 Firemap: 118
32	(1912) Volume: Ottawa Volume 2 Firemap: 119
34	(1912) Volume: Ottawa Volume 2 Firemap: 120
36	(1912) Volume: Ottawa Volume 2 Firemap: 121
38	(1912) Volume: Ottawa Volume 2 Firemap: 122
40	(1922) Volume: Ottawa Volume 2 Firemap: 118
42	(1922) Volume: Ottawa Volume 2 Firemap: 119
44	(1922) Volume: Ottawa Volume 2 Firemap: 120
46	(1922) Volume: Ottawa Volume 2 Firemap: 121
48	(1922) Volume: Ottawa Volume 2 Firemap: 121
50	(1922) Volume: Ottawa Volume 2 Firemap: 122
52	(1922) Volume: Ottawa Volume 2 Firemap: 124
54	(1963) Volume: Ottawa Volume 1 Firemap: 117
56	(1963) Volume: Ottawa Volume 1 Firemap: 118
58	(1963) Volume: Ottawa Volume 1 Firemap: 128-1
60	(1963) Volume: Ottawa Volume 1 Firemap: 128-3
62	(1948) Volume: Ottawa Firemap: 117
64	(1948) Volume: Ottawa Firemap: 118
66	(1948) Volume: Ottawa Firemap: 119
68	(1948) Volume: Ottawa Firemap: 120
70	(1948) Volume: Ottawa Firemap: 128
71	(1985) Commercial Property Fire Rating Form Report - 1985 263-267 Rochester Street Ottawa ON K1R7M9 (distance = 0 metres*)
74	(1983) Commercial Property Fire Inspection Survey Report - 1983 G.Q Livreo 263-267 Rochester Street Ottawa ON K1R7M9 (distance = 0 metres*)
78	(1983) Siteplan Report - 1983 263-267 Rochester Street Ottawa ON K1R7M9 (distance = 0 metres*)

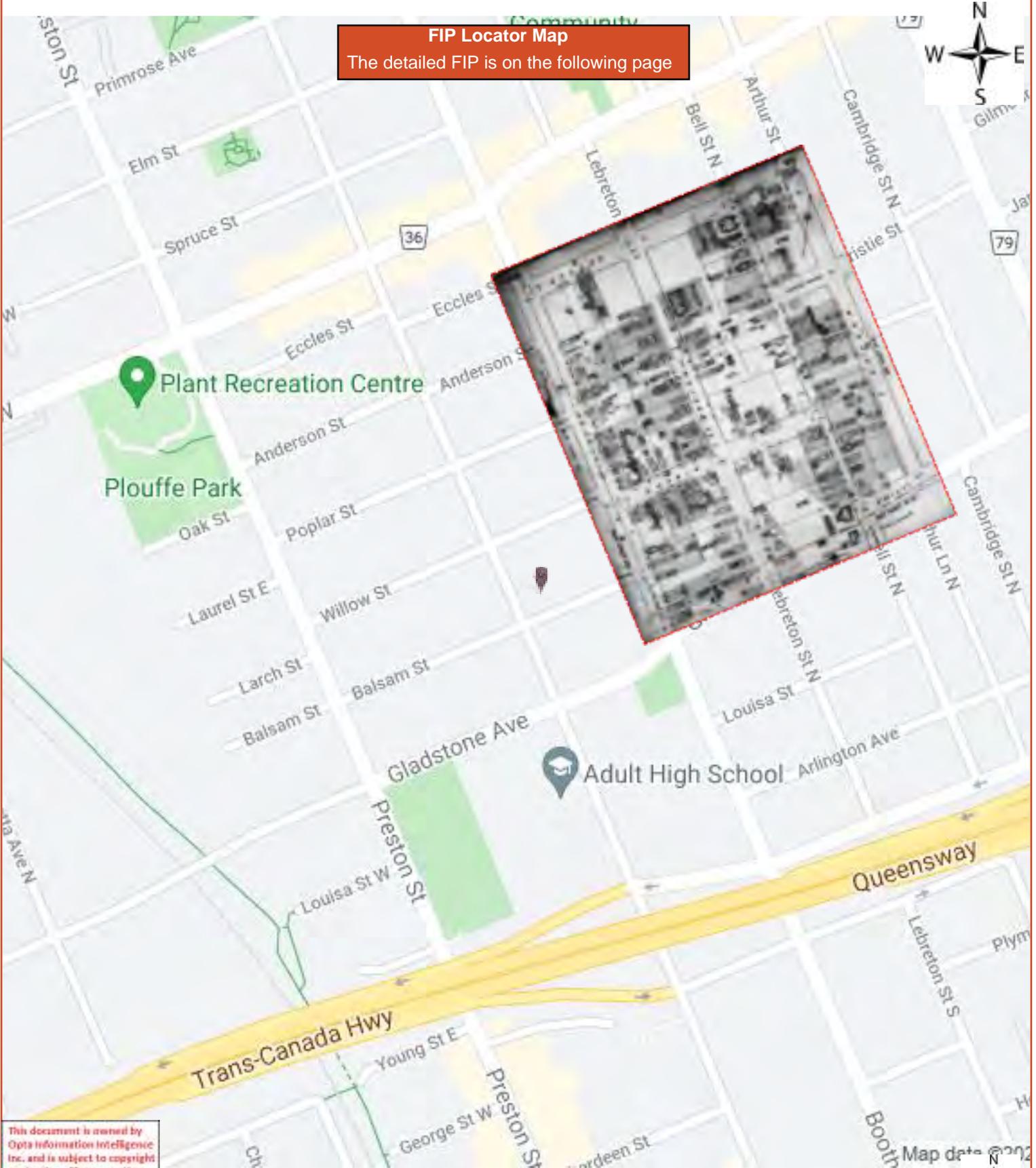




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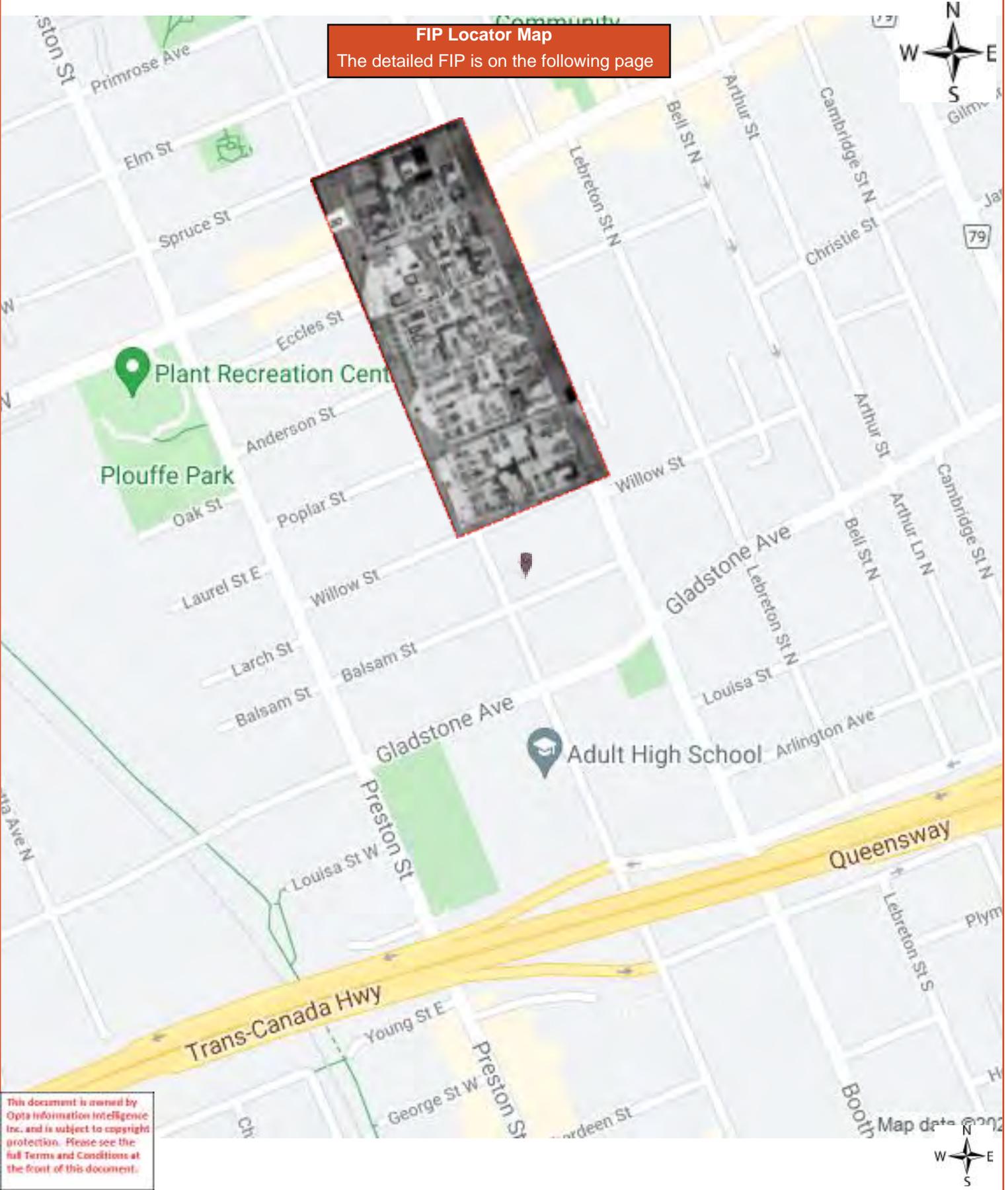


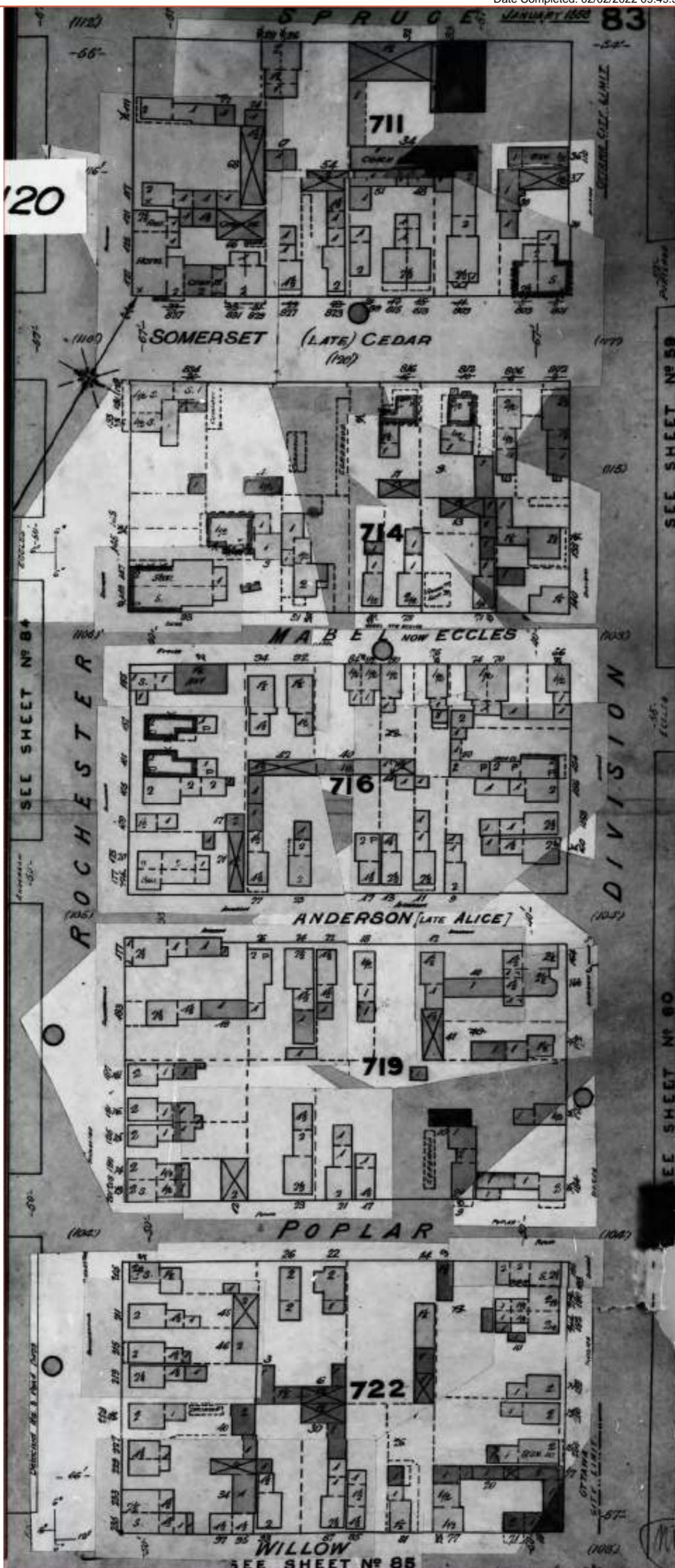
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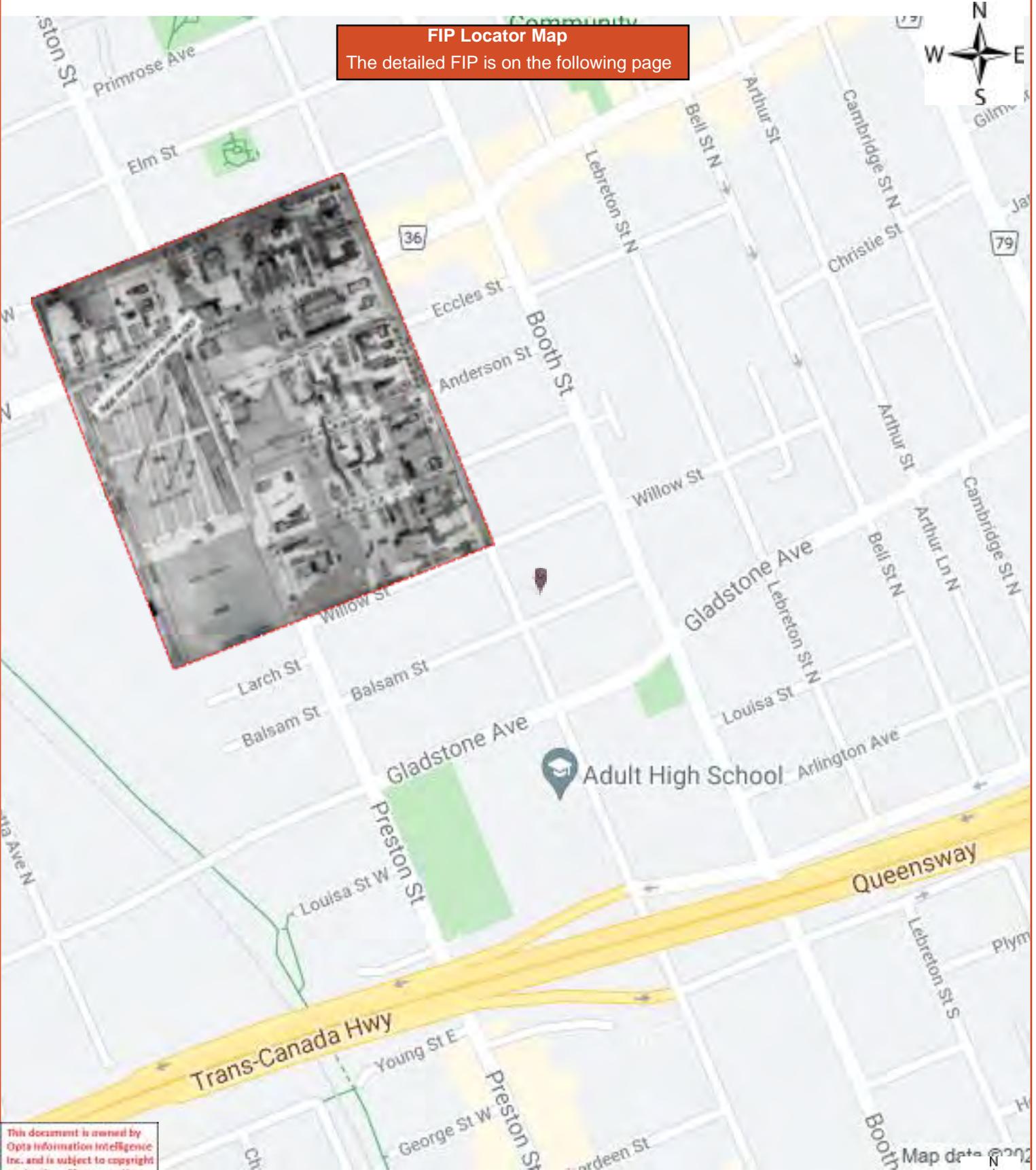


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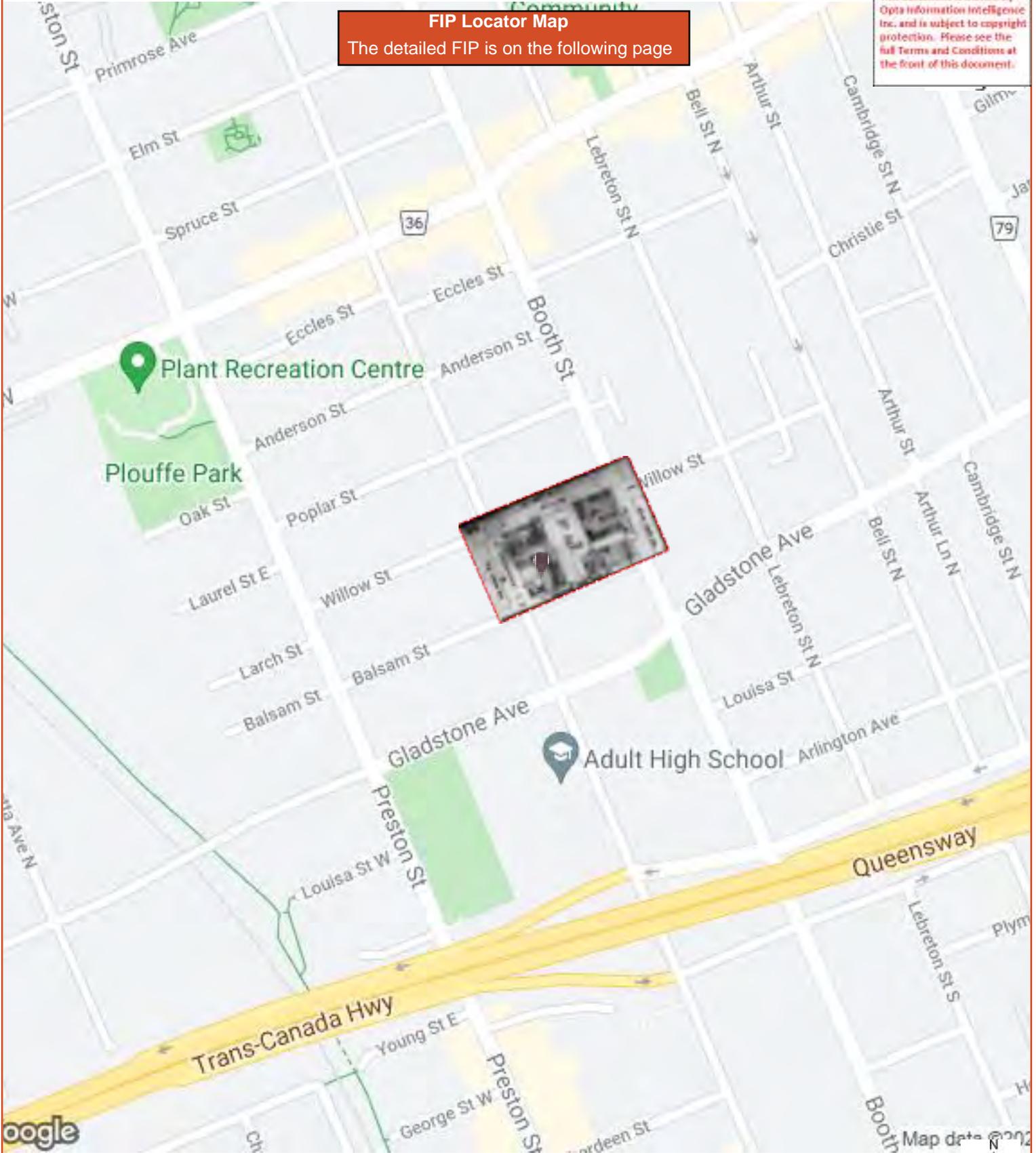


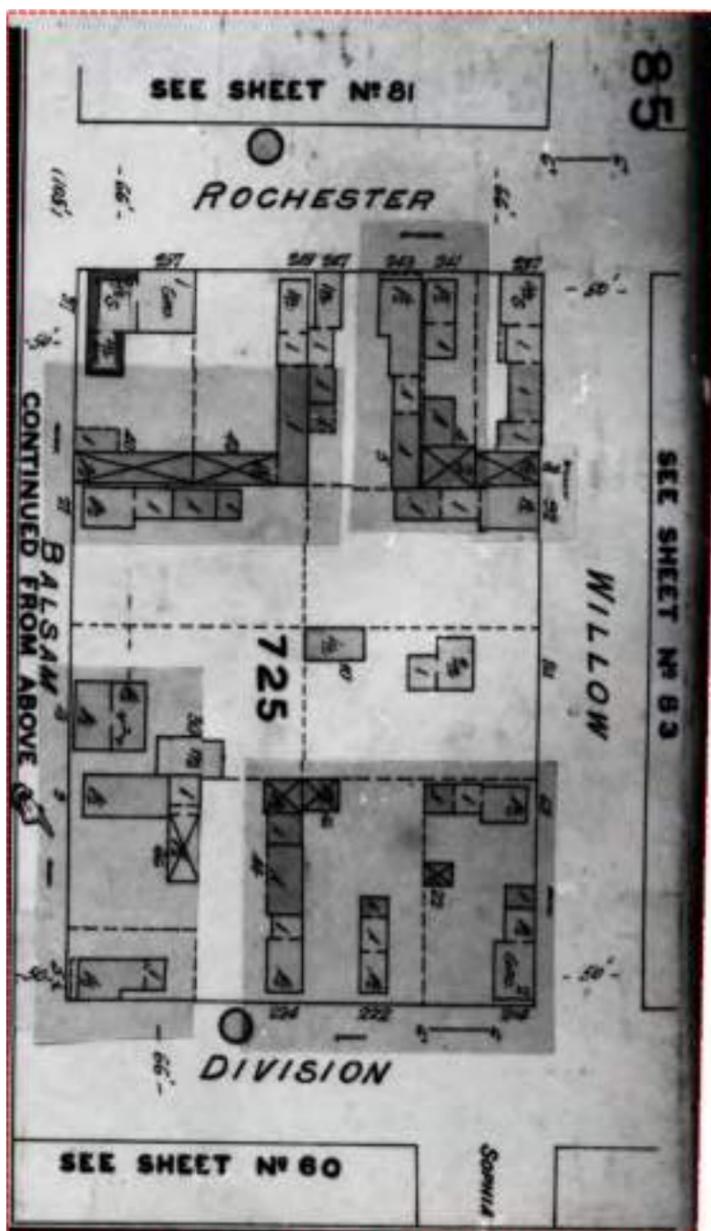


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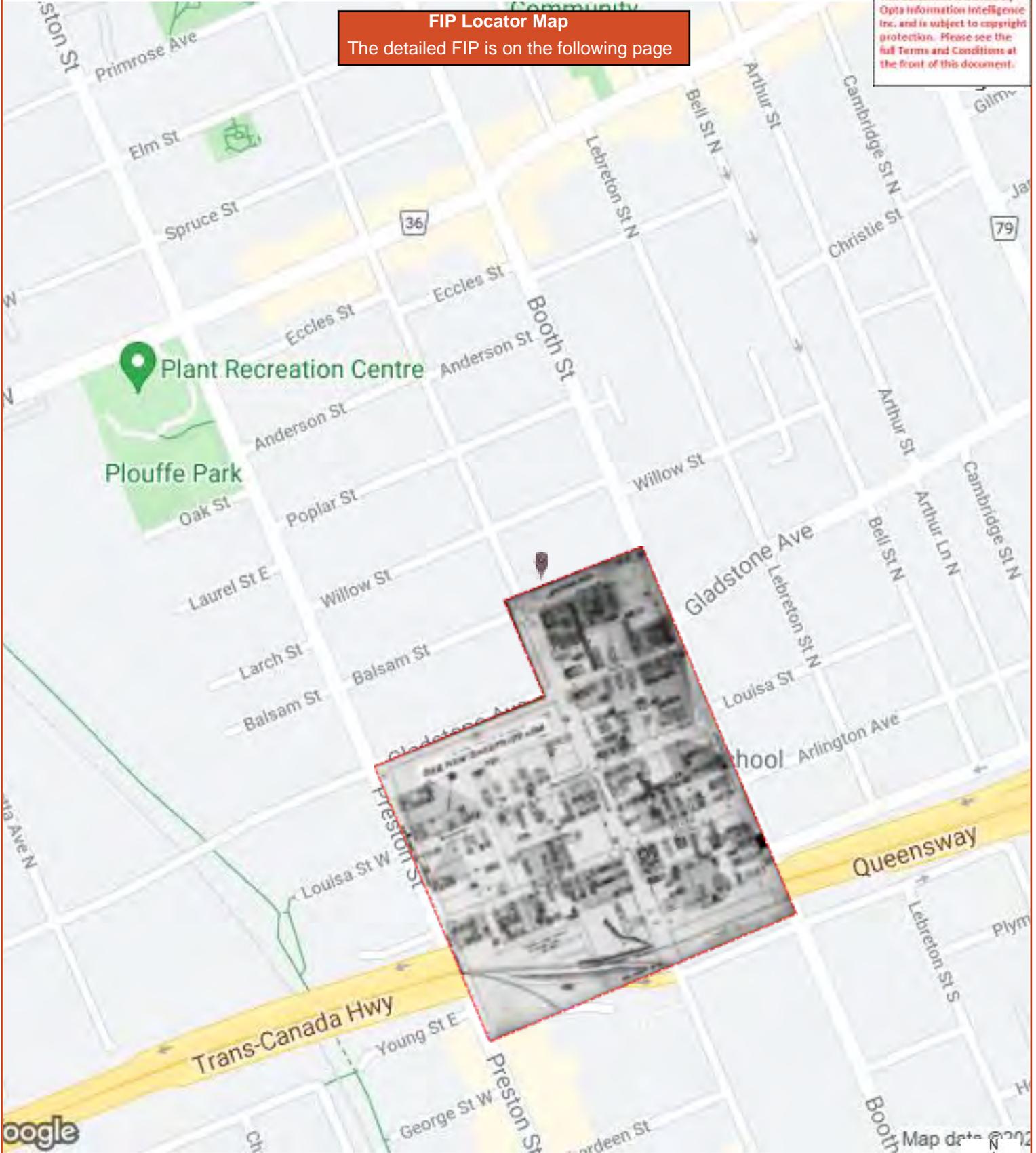
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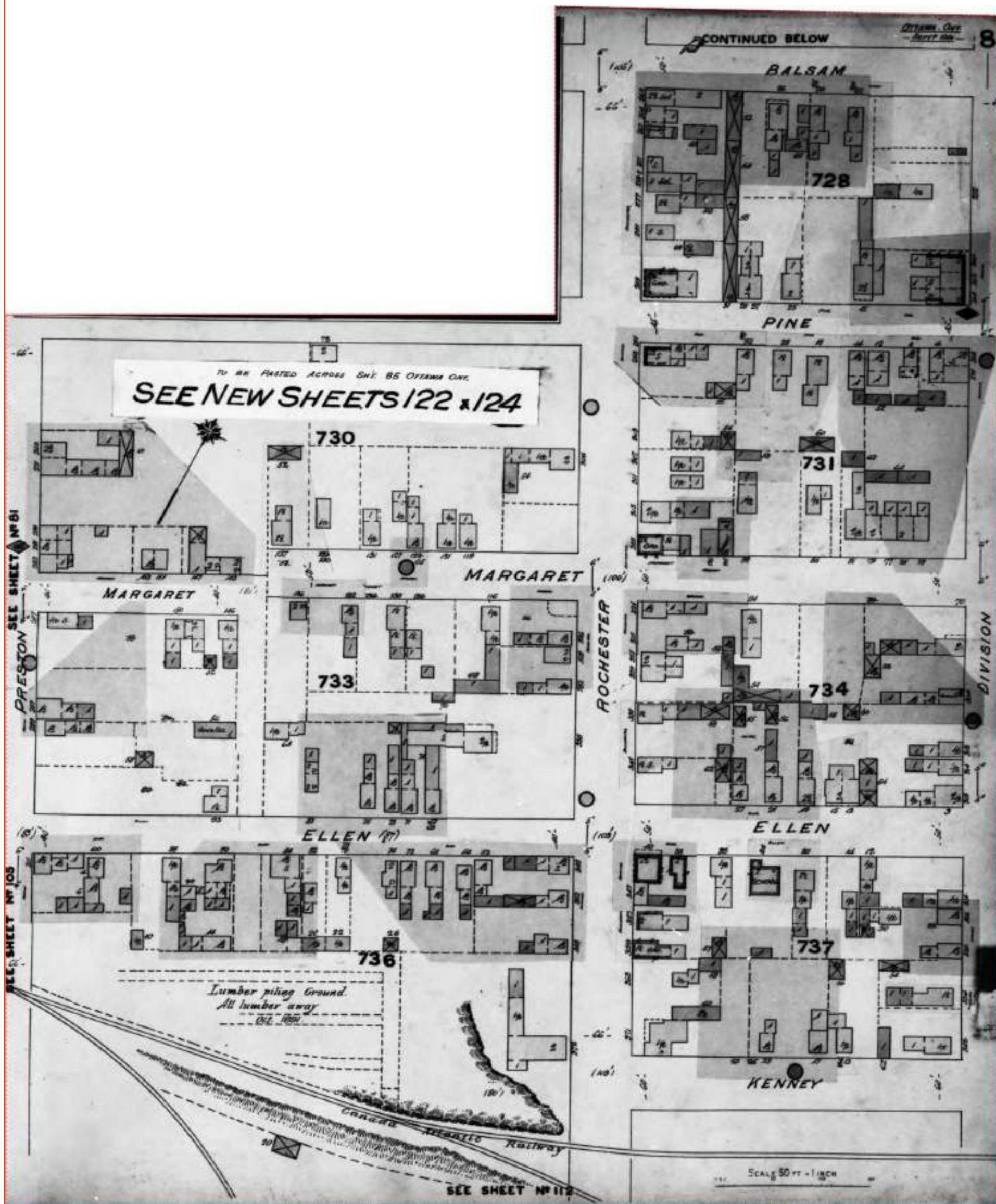


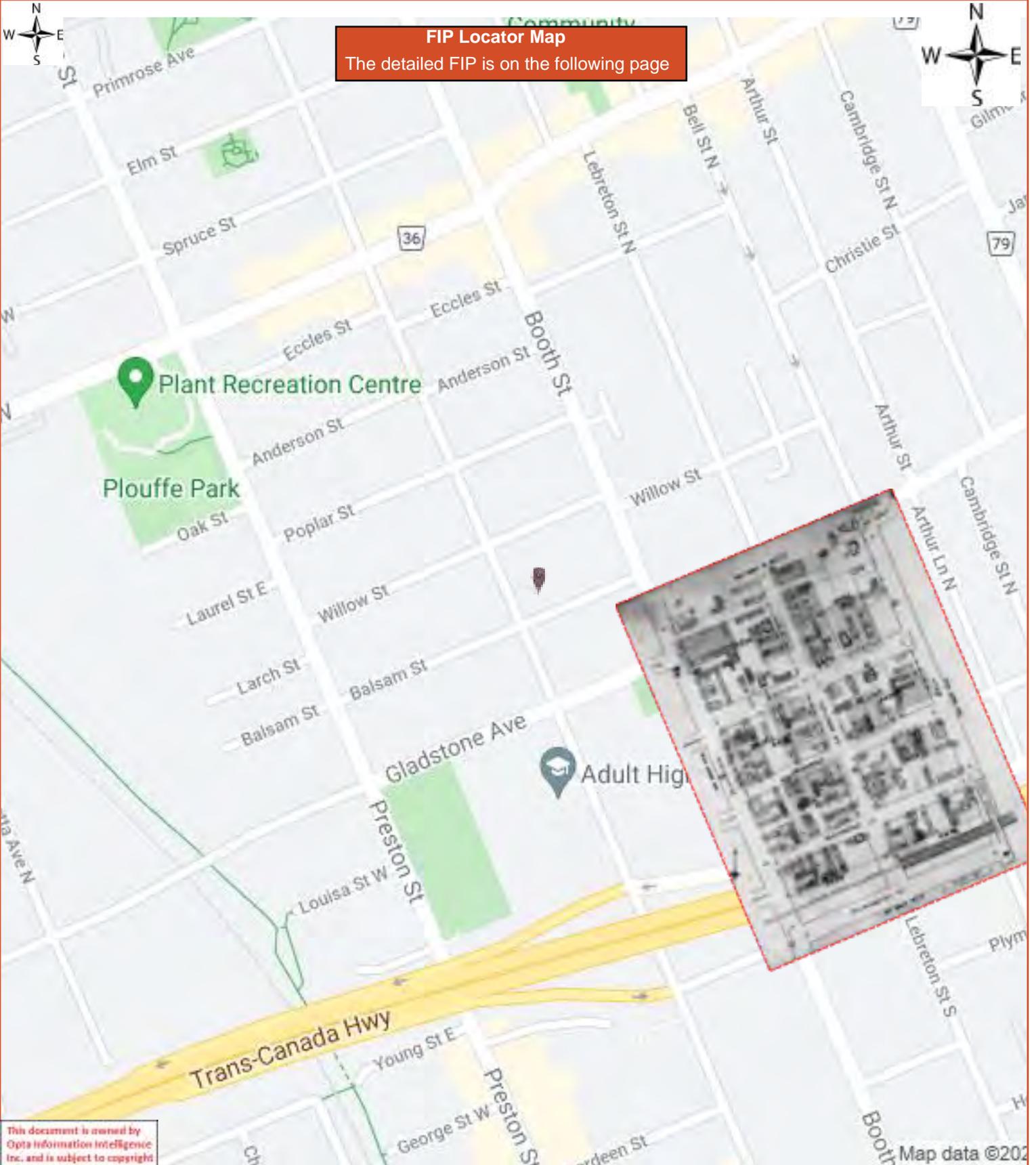


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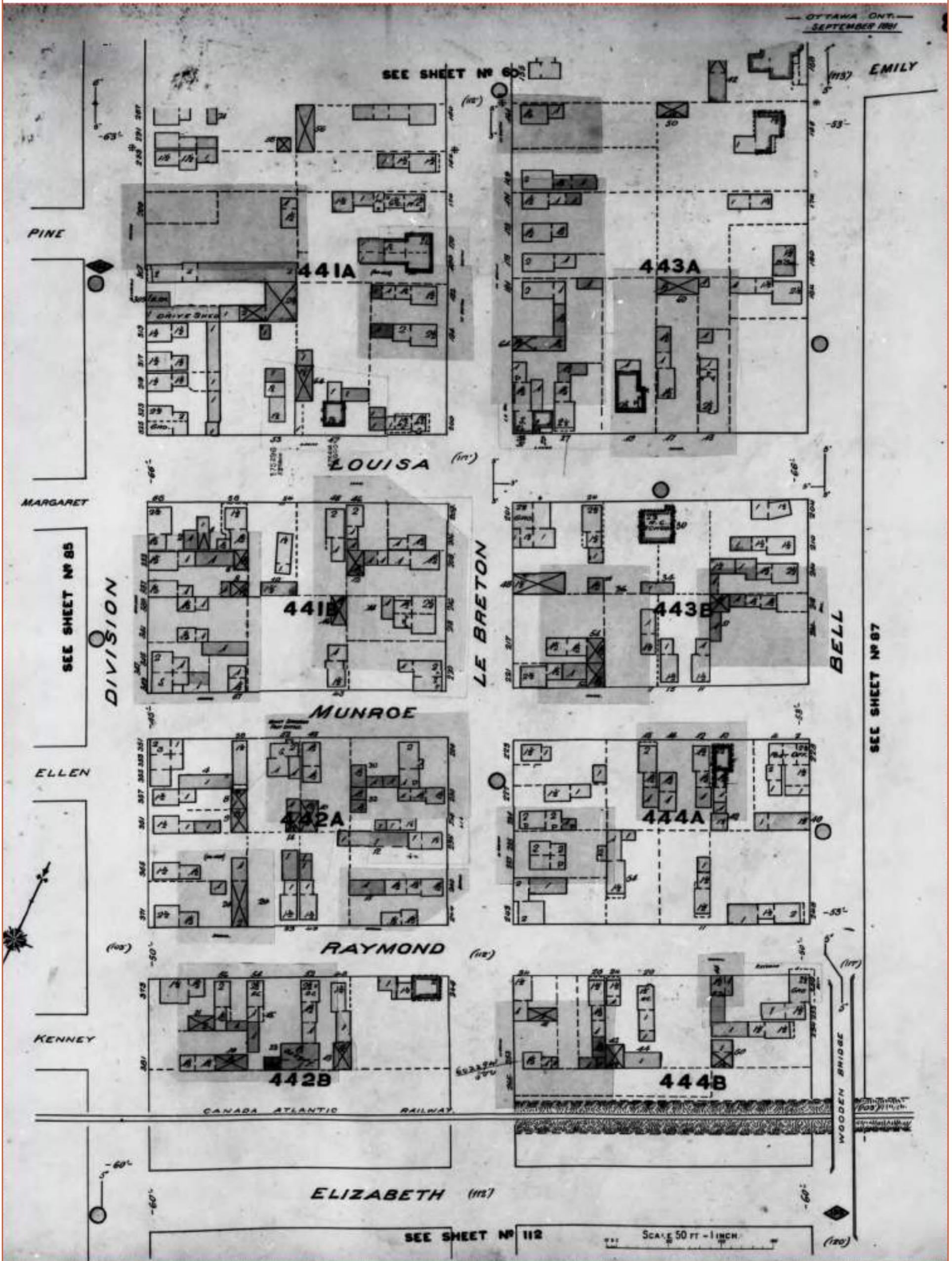
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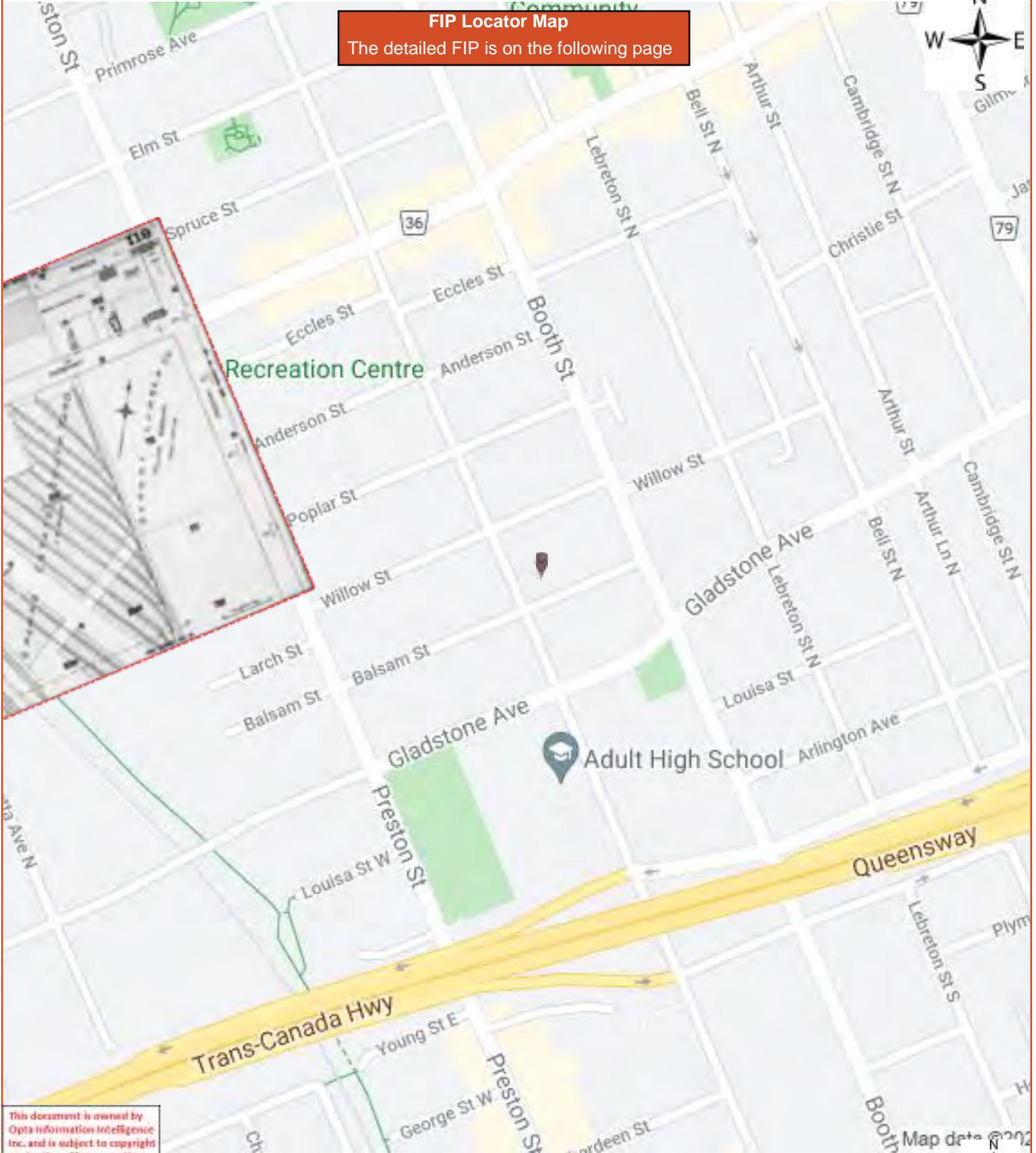


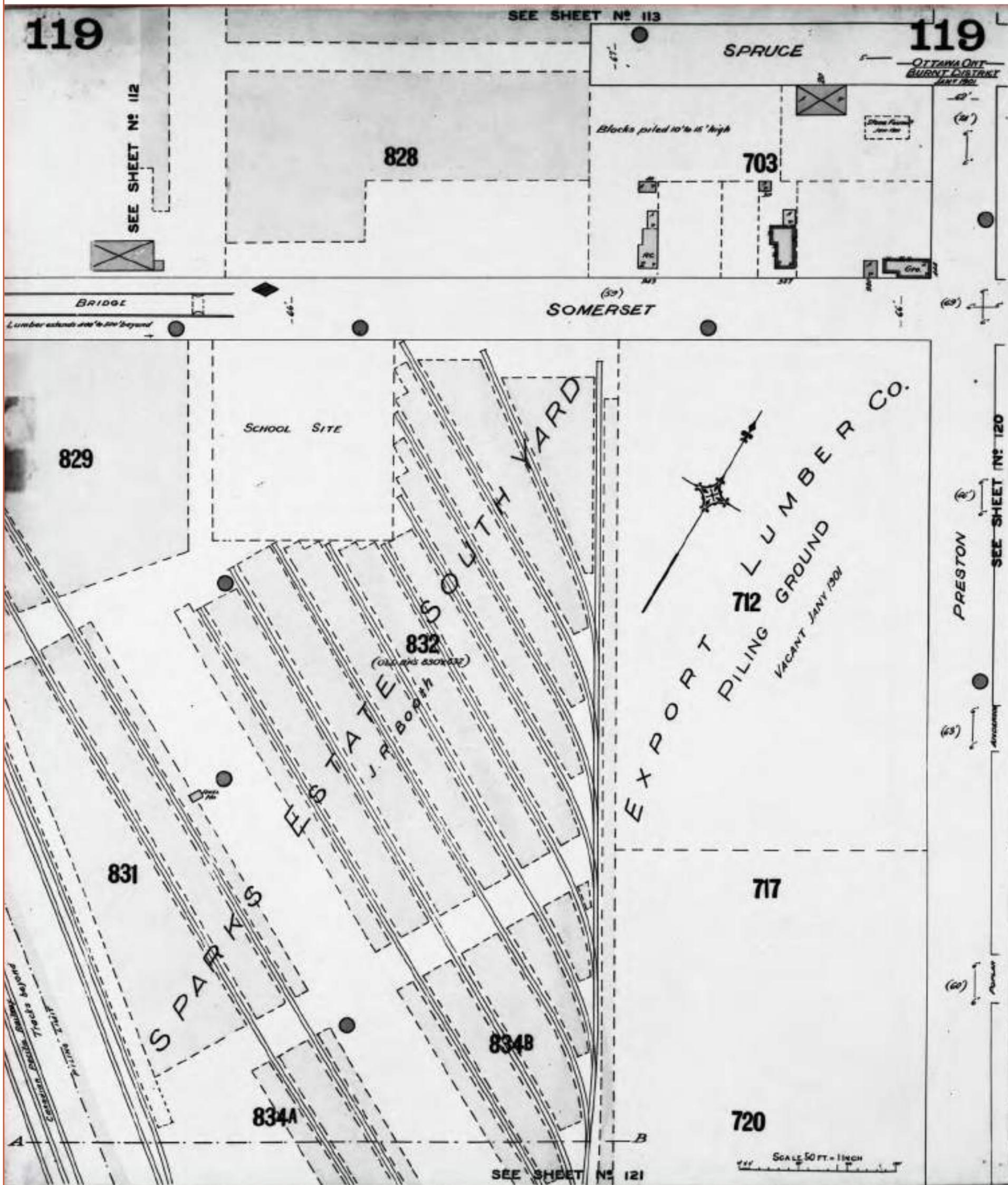


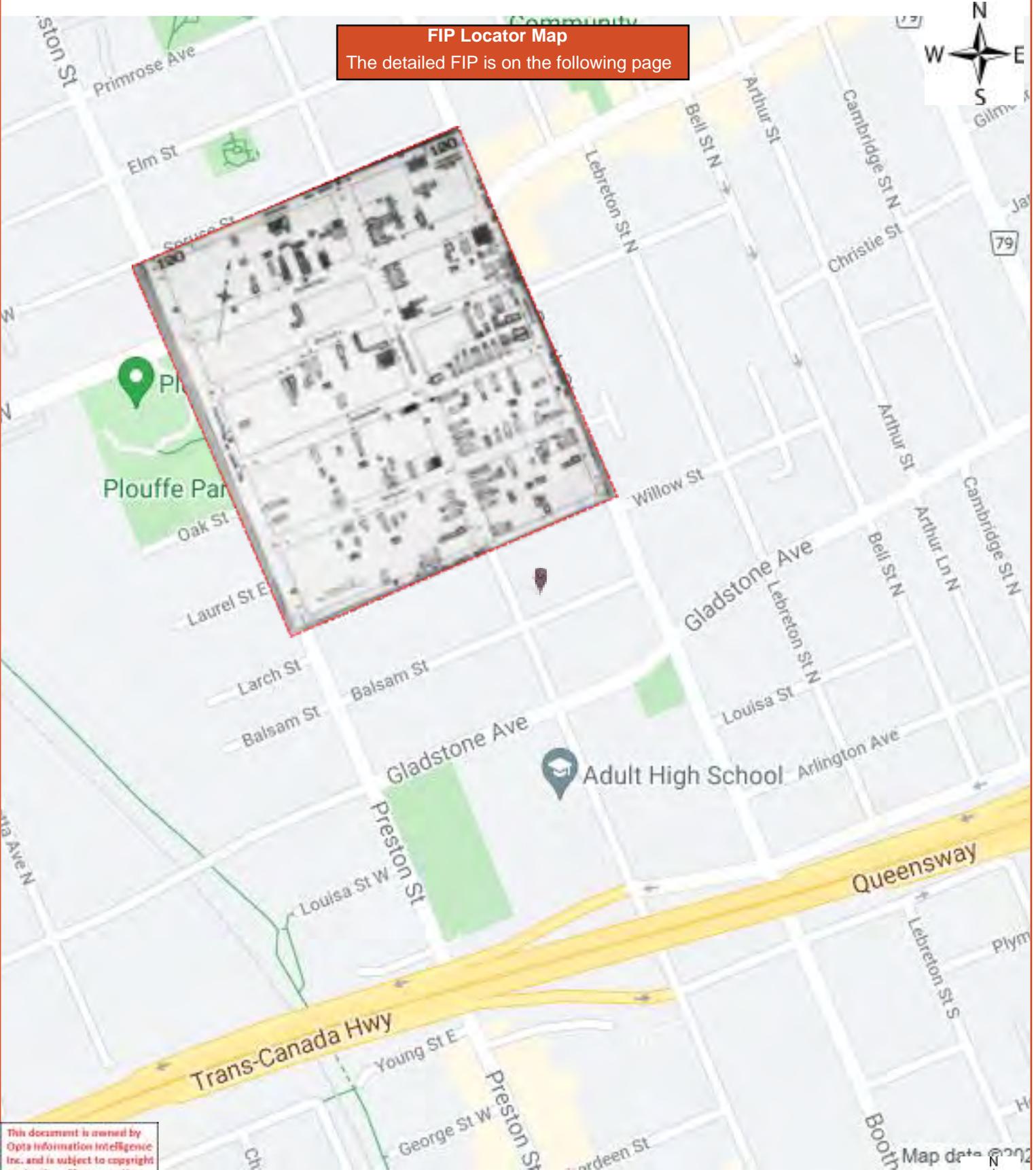
FIP Locator Map
The detailed FIP is on the following page



FIP Locator Map
The detailed FIP is on the following page







FIP Locator Map
The detailed FIP is on the following page

Page: 22
Project Name: R63048

1901 Volume: Ottawa 1 Firemap: 120
Ottawa Volume 1 Plan: 1422 (1888)
Sheet: 120 (1901)

Project #: 22010600157

Requested by:

Eleanor Goolab

Date Completed: 02/02/2022 09:49:36

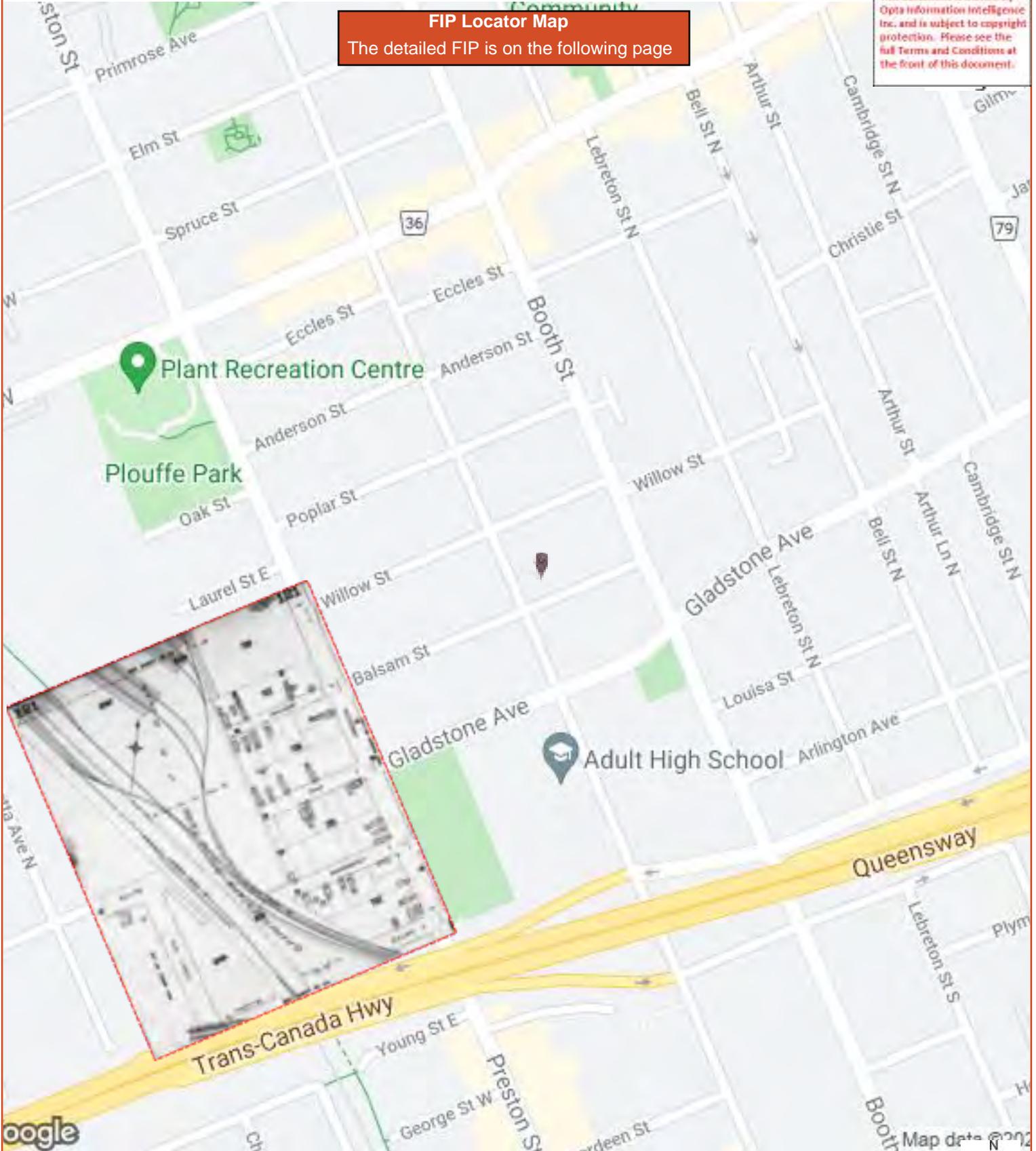


INFORMATION INTELLIGENCE

OPTA INFORMATION INTELLIGENCE

FIP Locator Map
The detailed FIP is on the following page

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Page: 24
Project Name: R63048
Project #: 22010600157

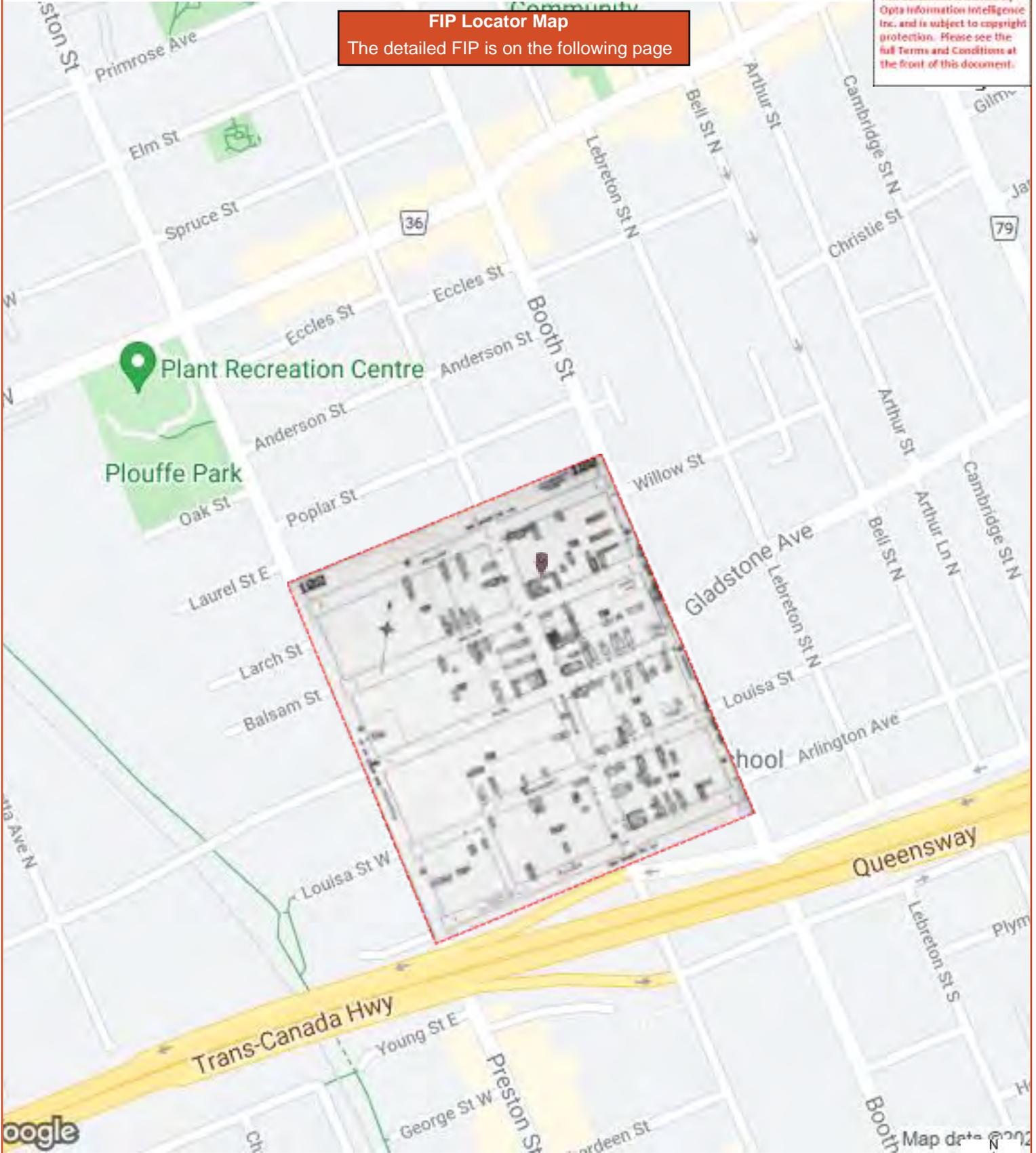
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Ottawa Volume 1 Plan: 1422 (1888)
Sheet: 121 (1901)

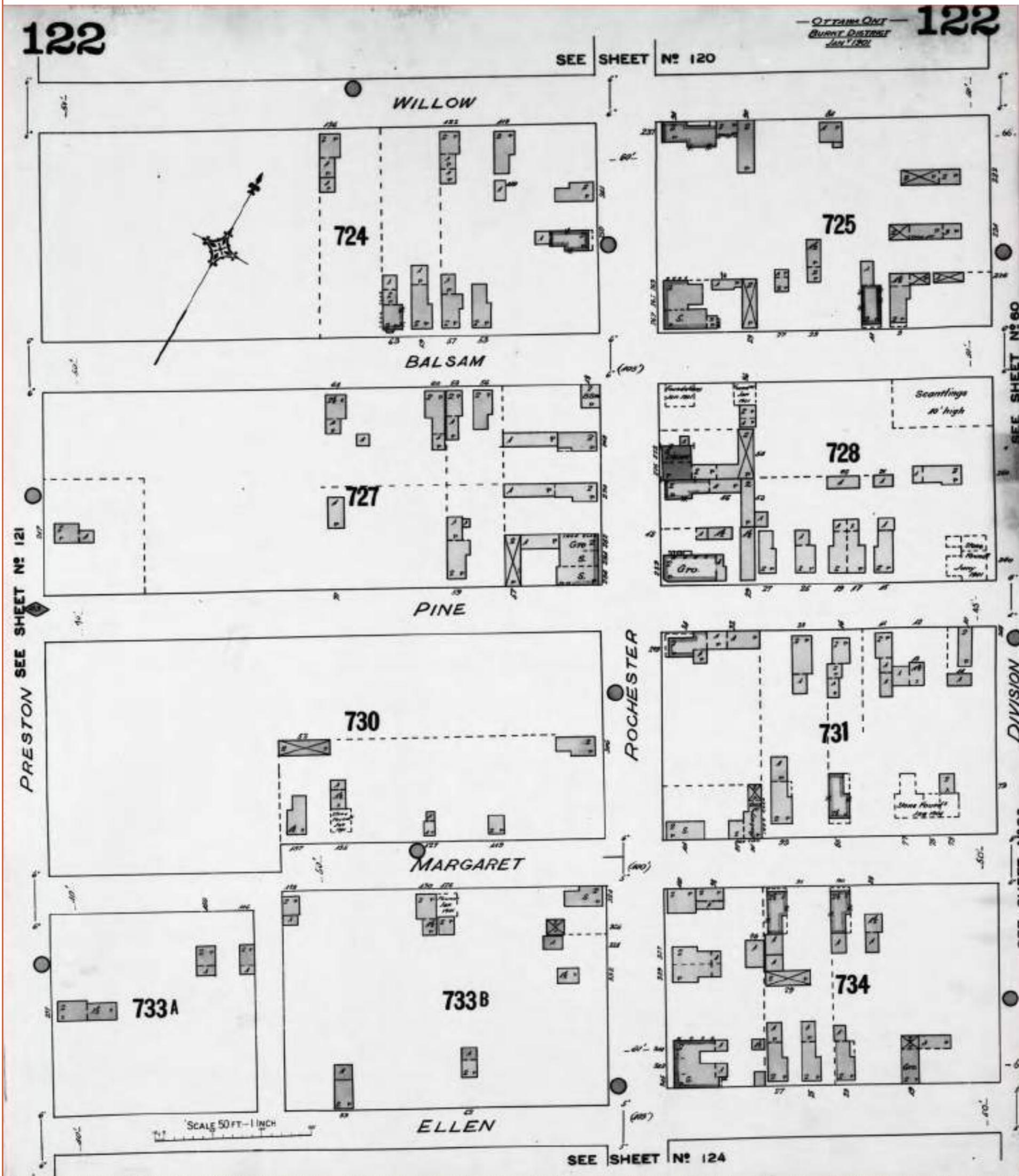
Requested by:
Eleanor Goolab
Date Completed: 02/02/2022 09:49:36

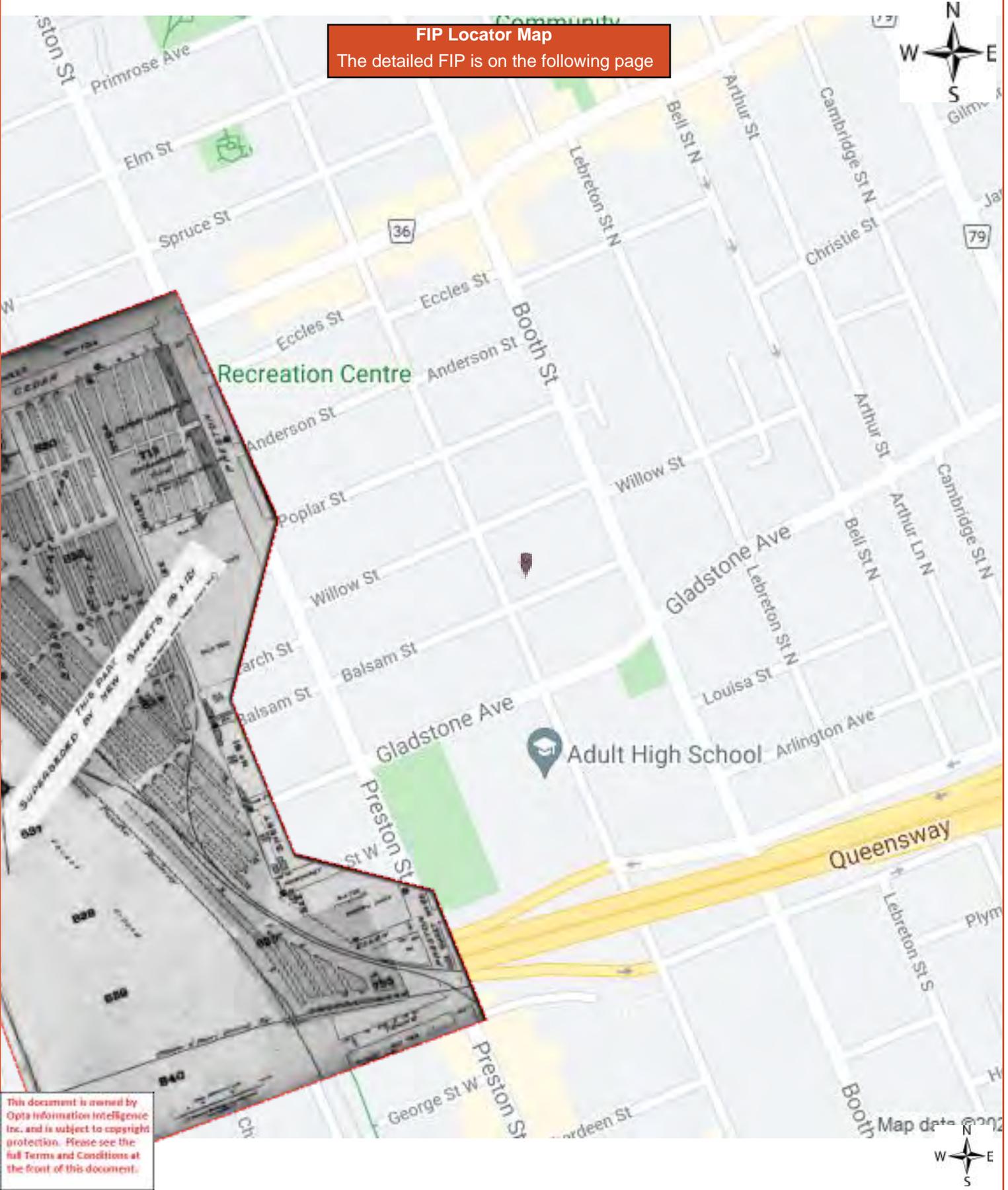


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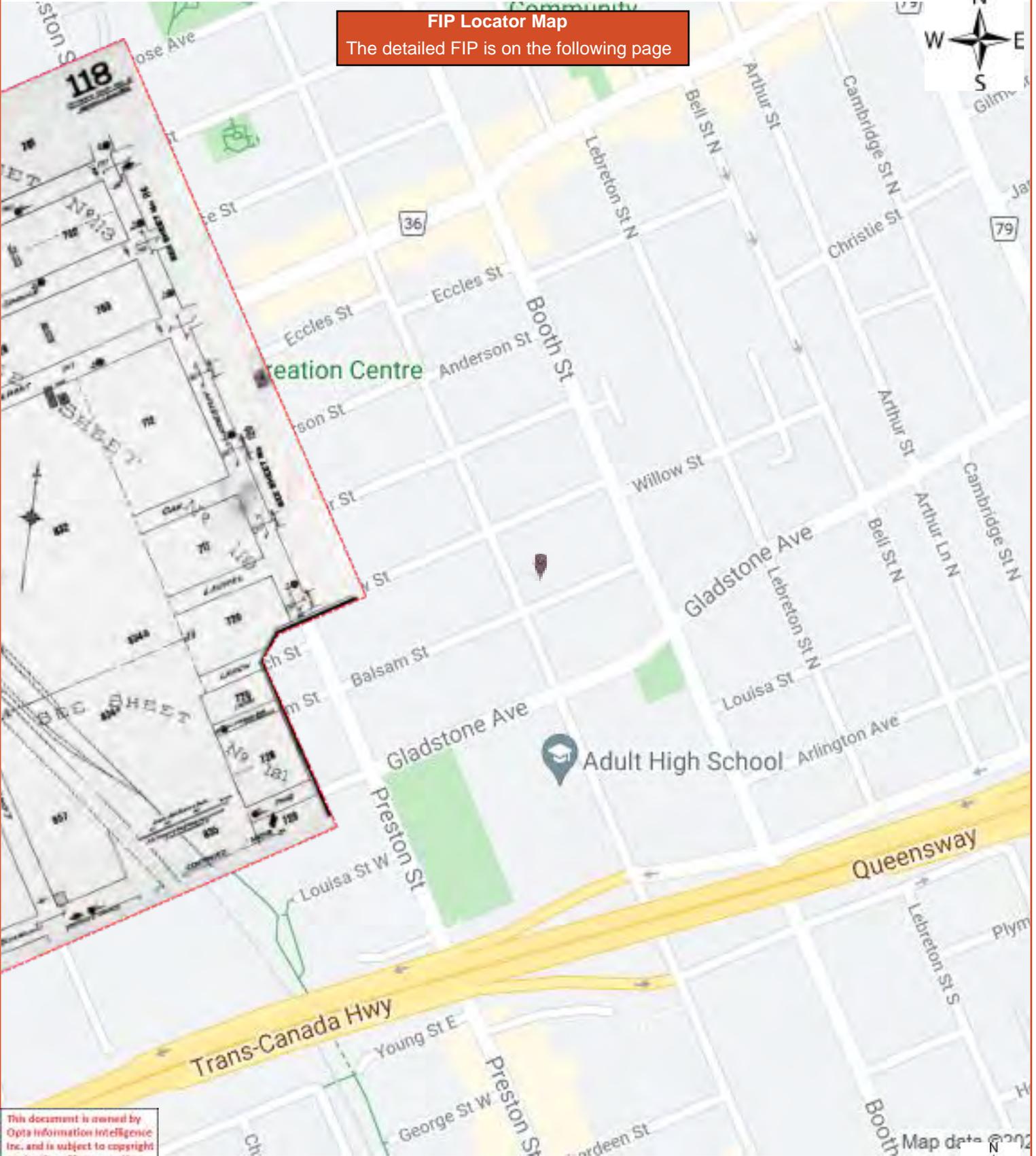






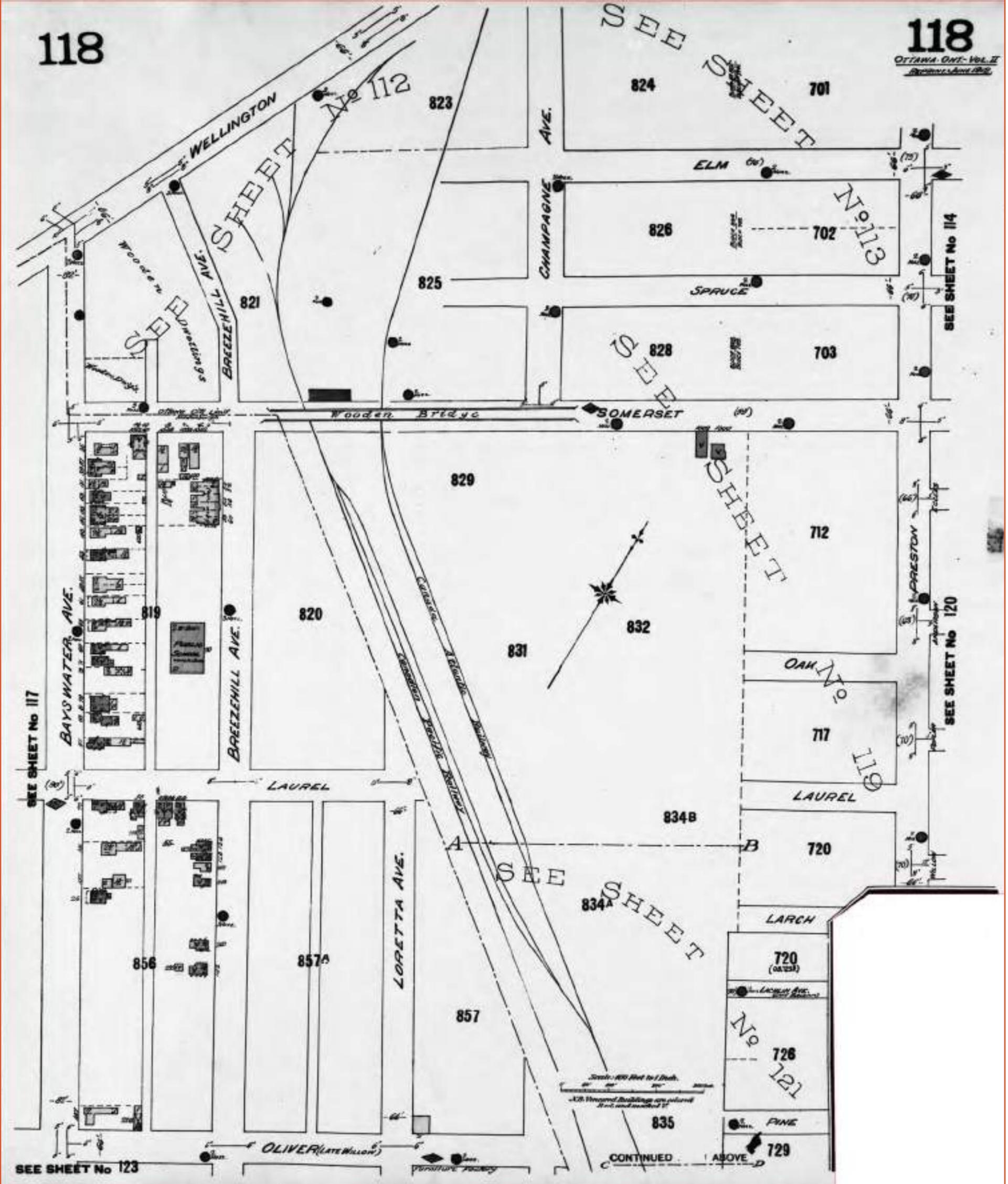
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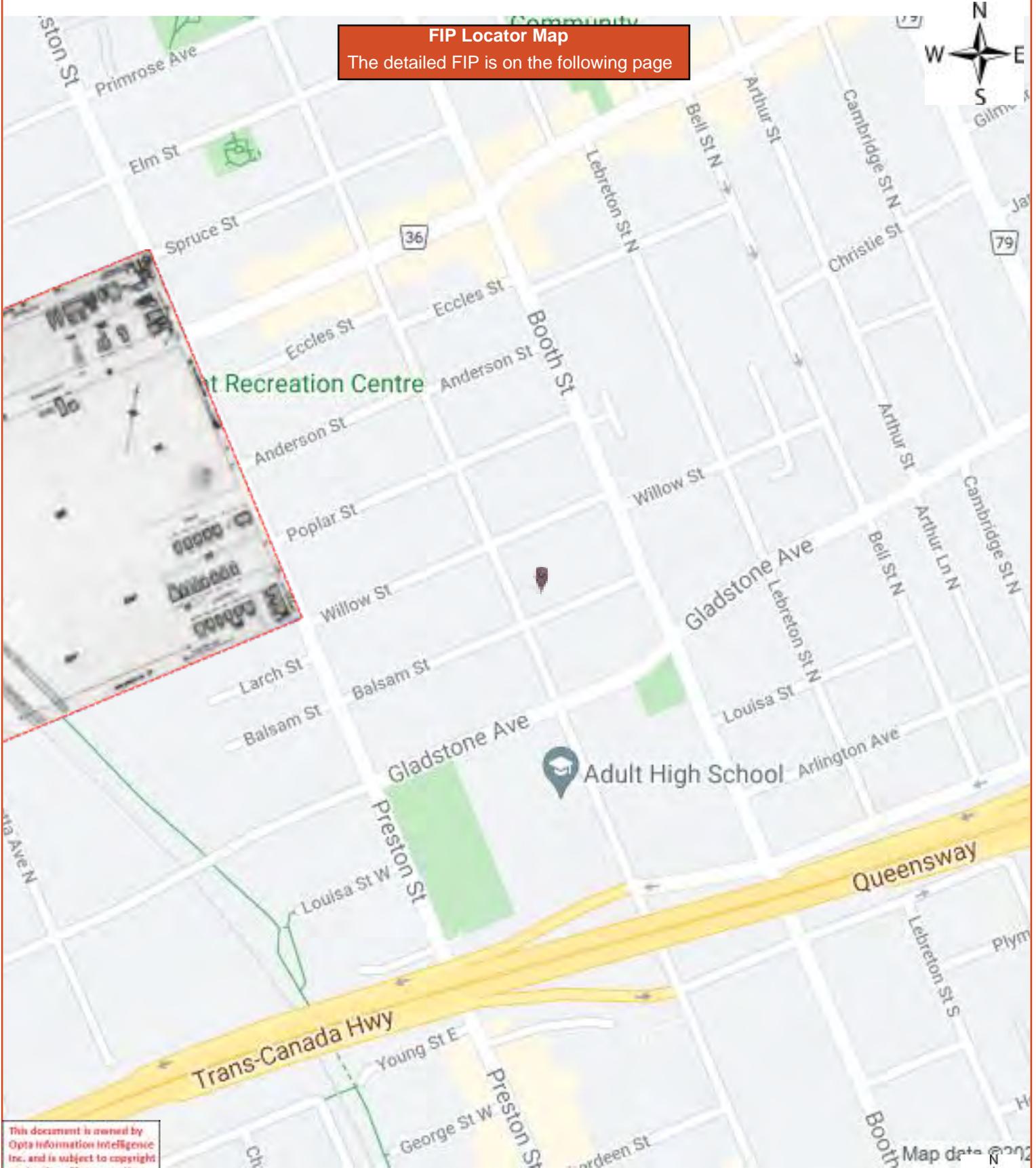


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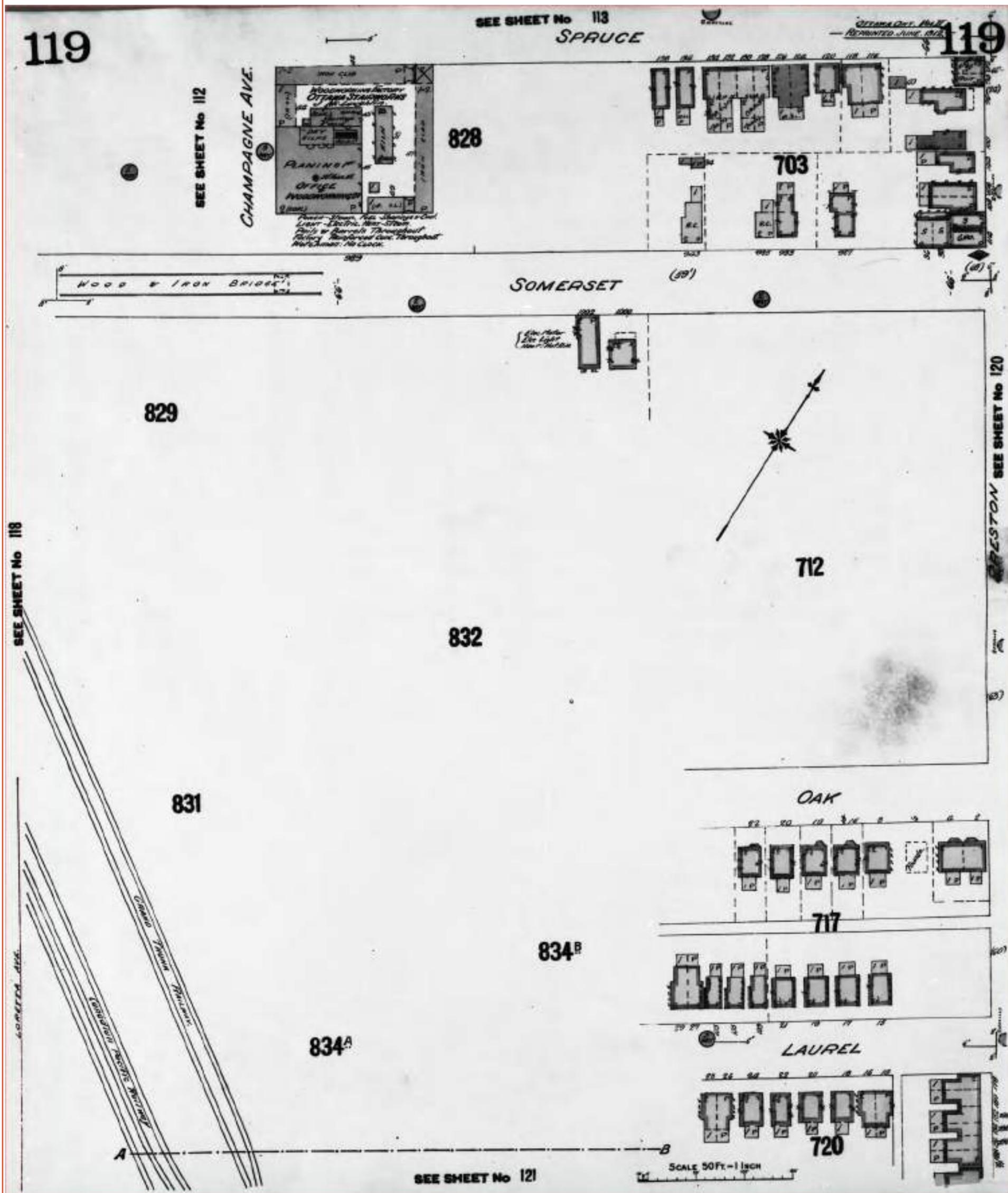


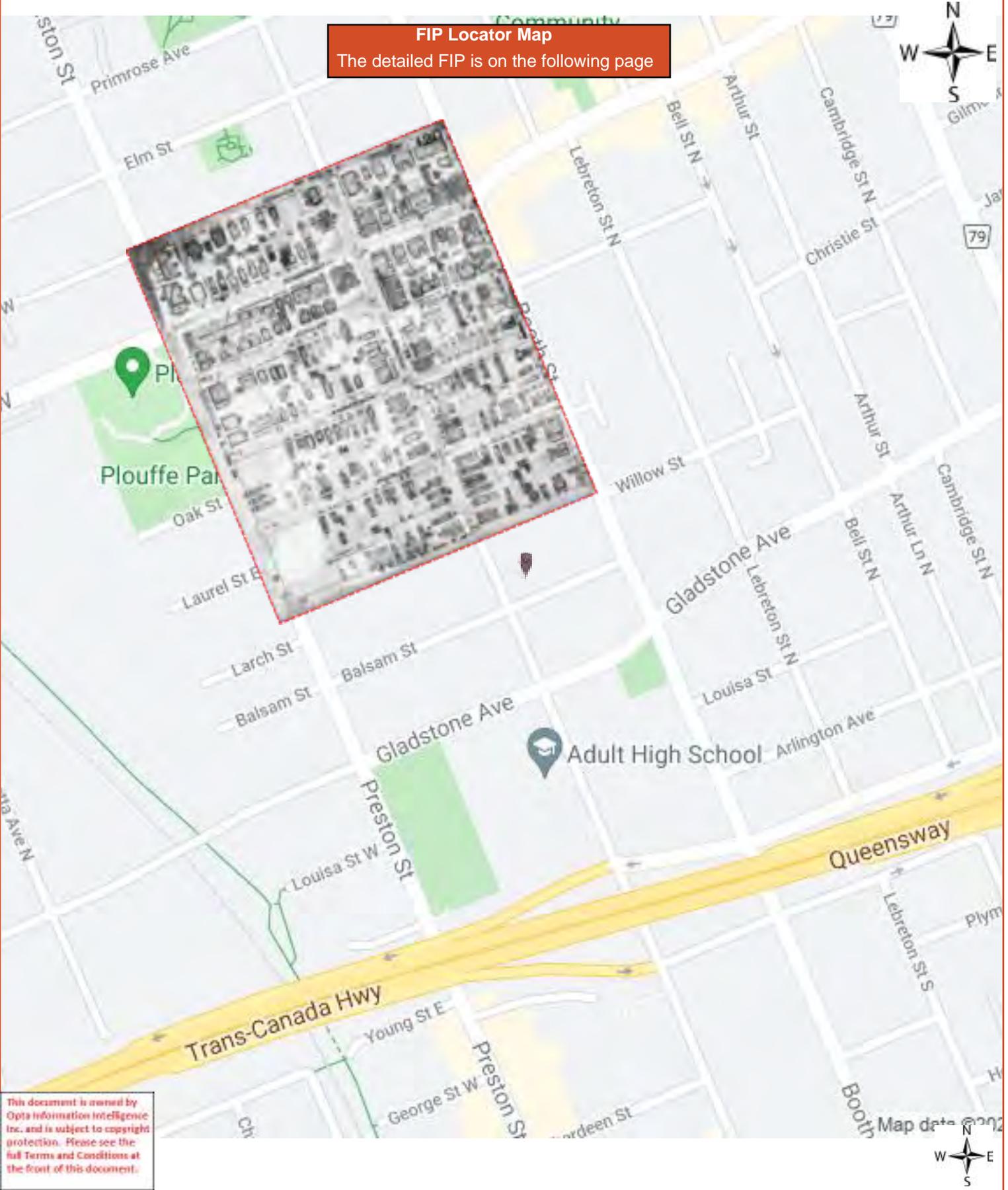
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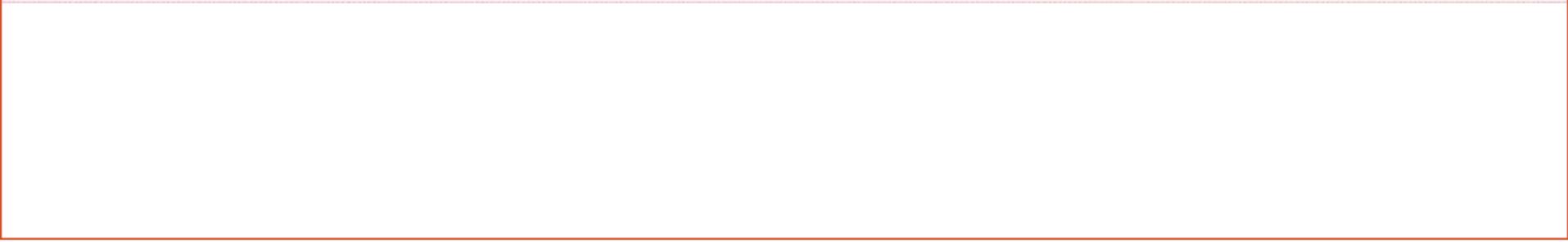




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Project Name: R63048
Project #: 22010600157

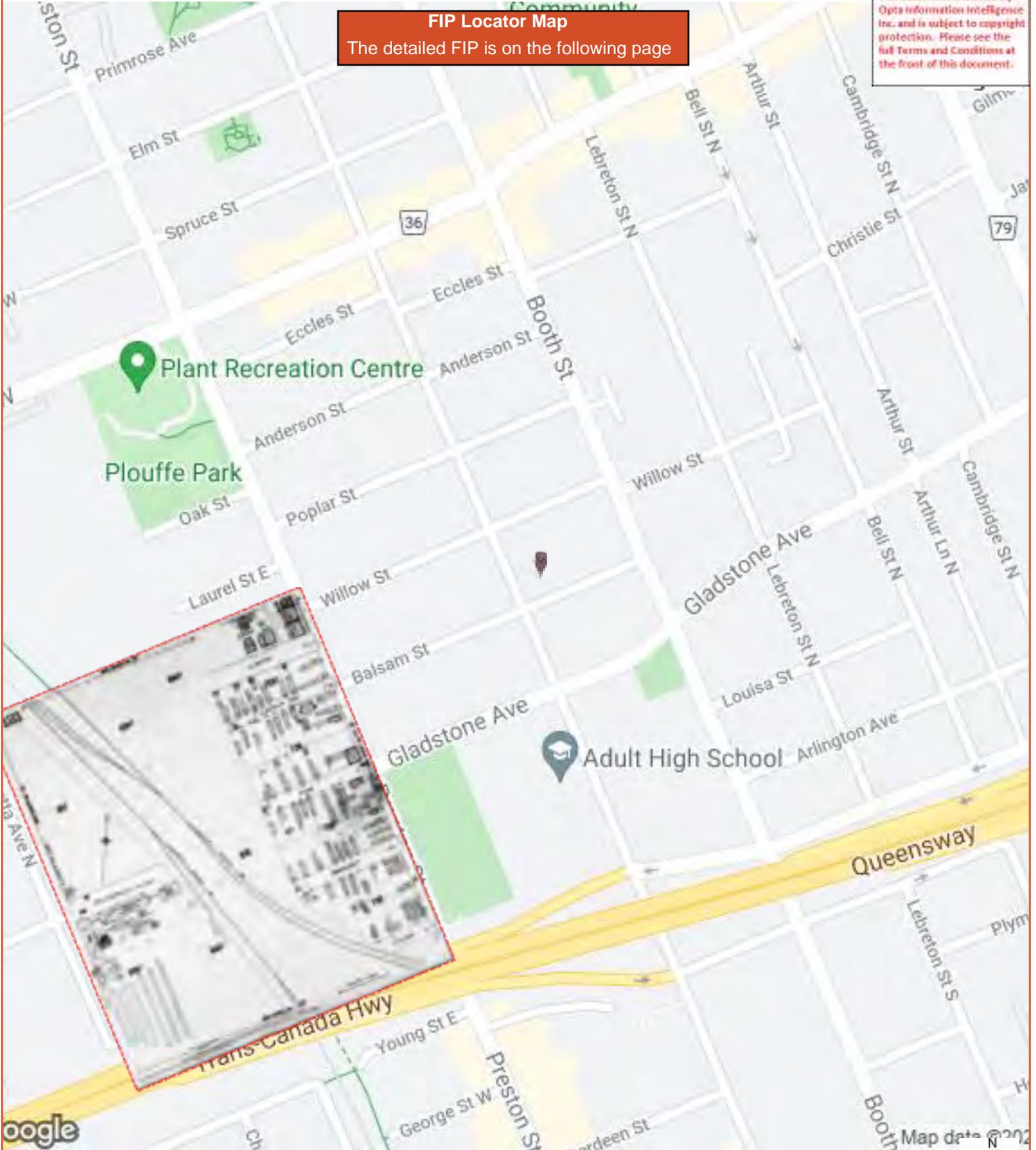
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Ottawa Volume 2 Plan: 1431 (1902)
Sheet: 120 (1912)

Requested by:
Eleanor Goolab
Date Completed: 02/02/2022 09:49:36



FIP Locator Map
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Page: 36
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Project #: 22010600157

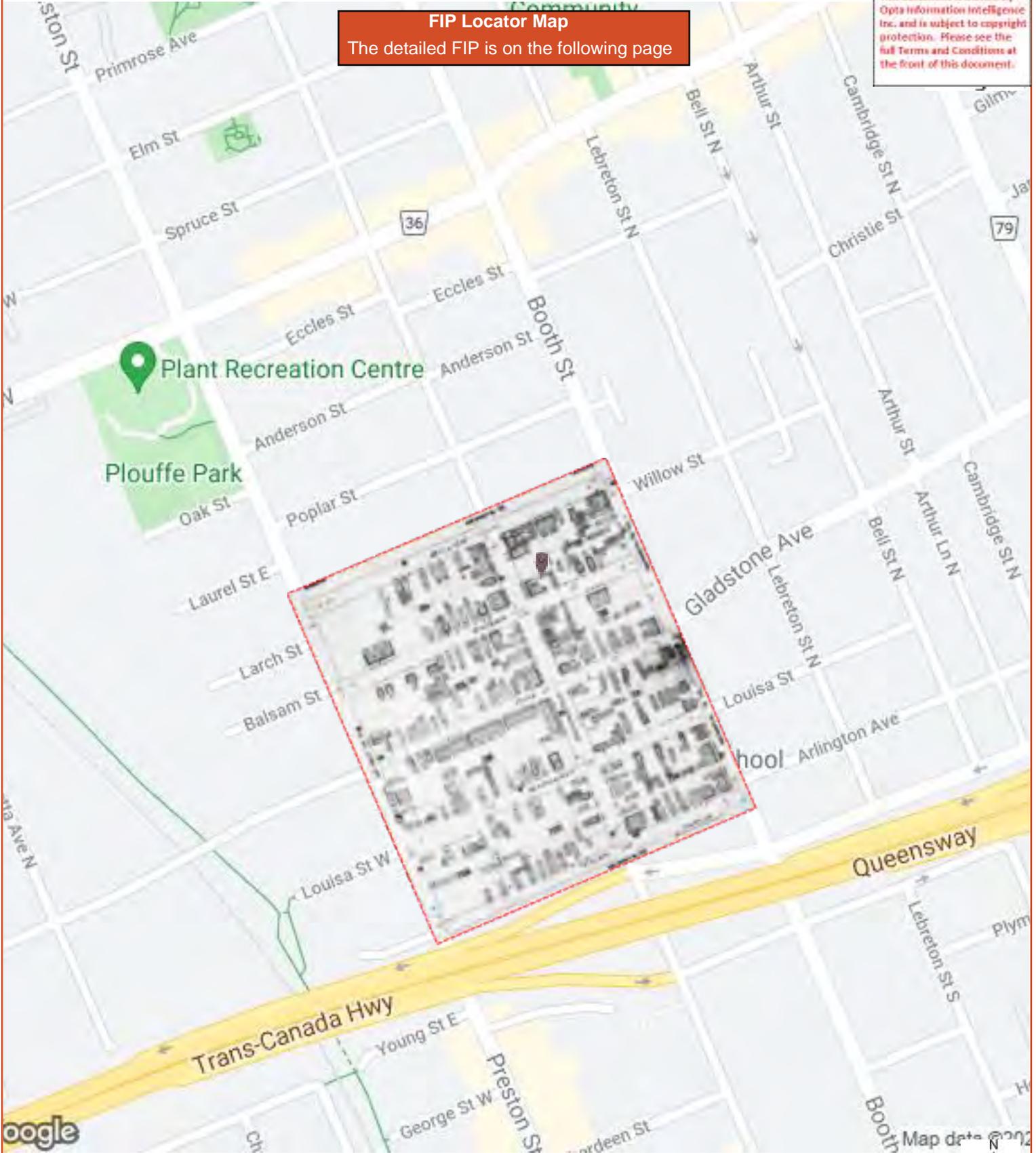
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Ottawa Volume 2 Plan: 1431 (1902)
Sheet: 121 (1912)

Requested by:
Eleanor Goolab
Date Completed: 02/02/2022 09:49:36



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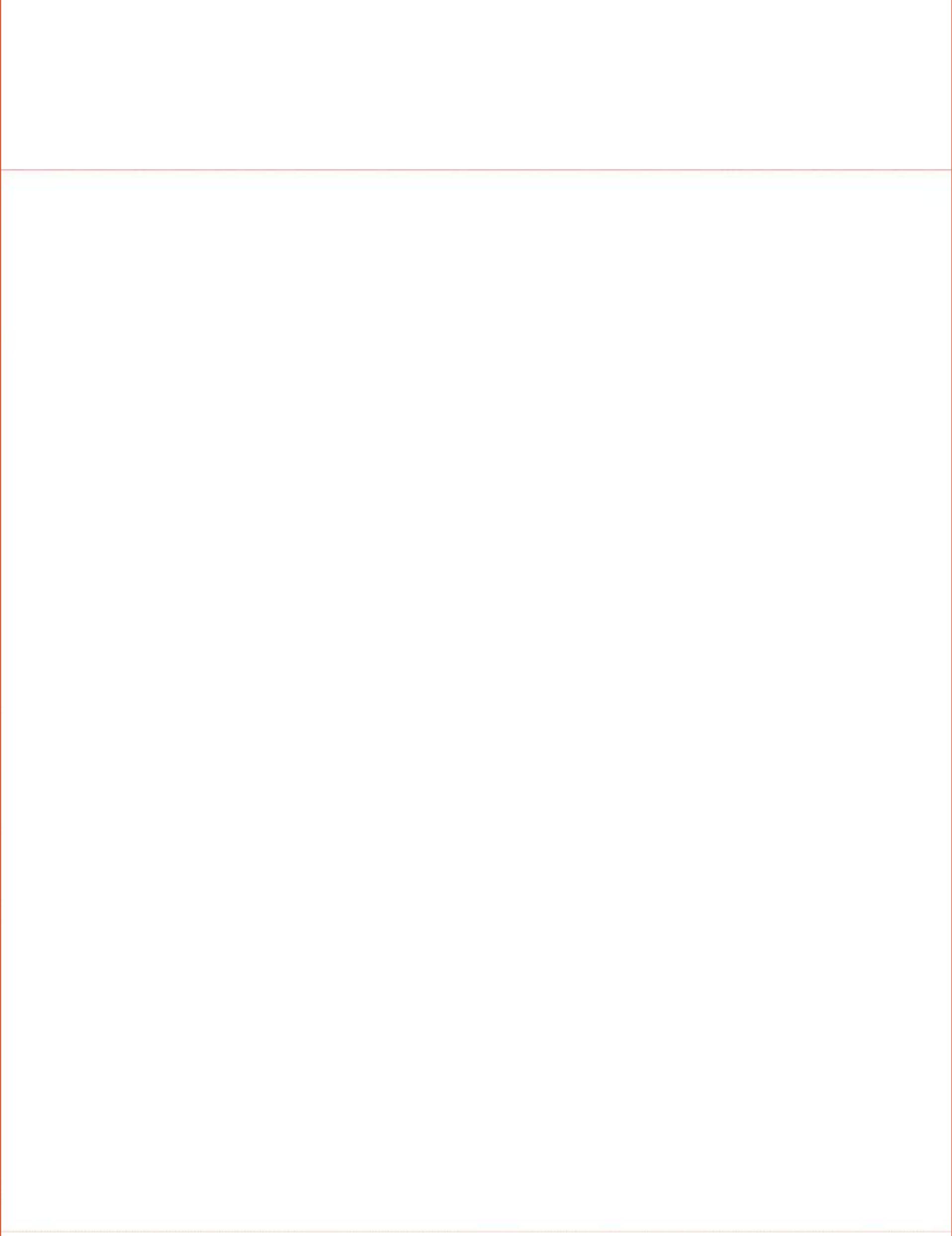
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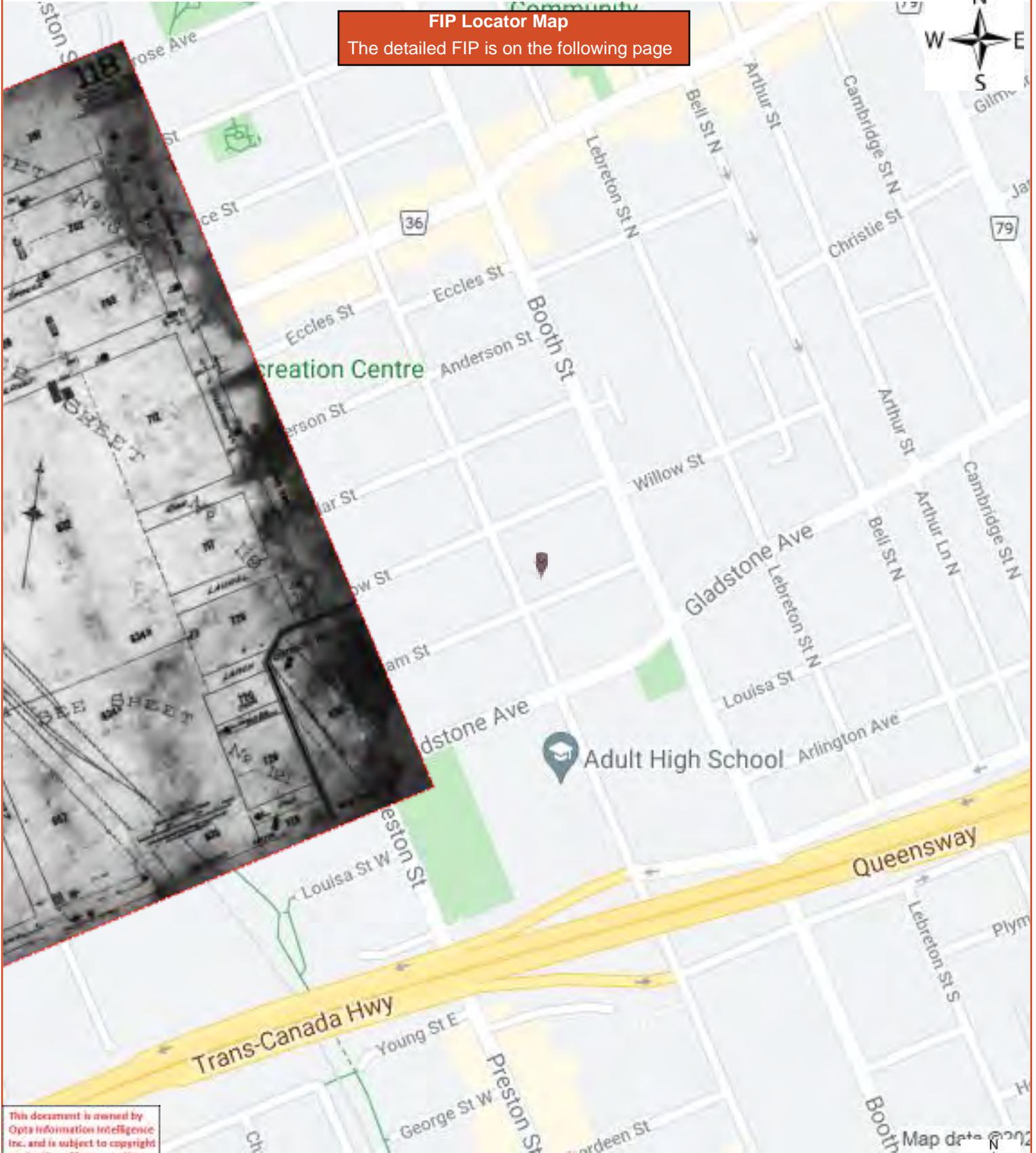
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Project #: 22010600157

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Ottawa Volume 2 Plan: 1431 (1902)
Sheet: 122 (1912)

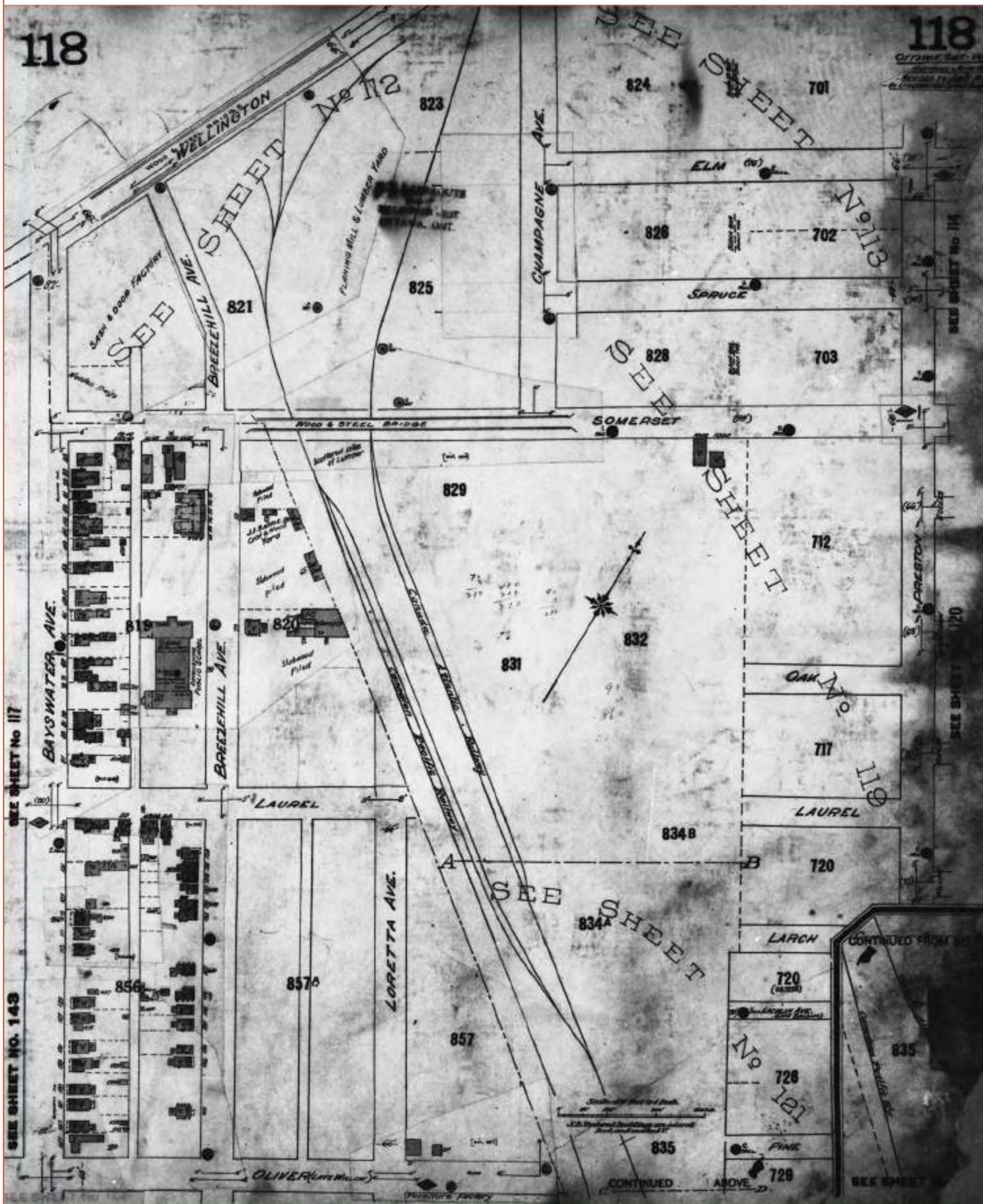
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Eleanor Goolab
Date Completed: 02/02/2022 09:49:36

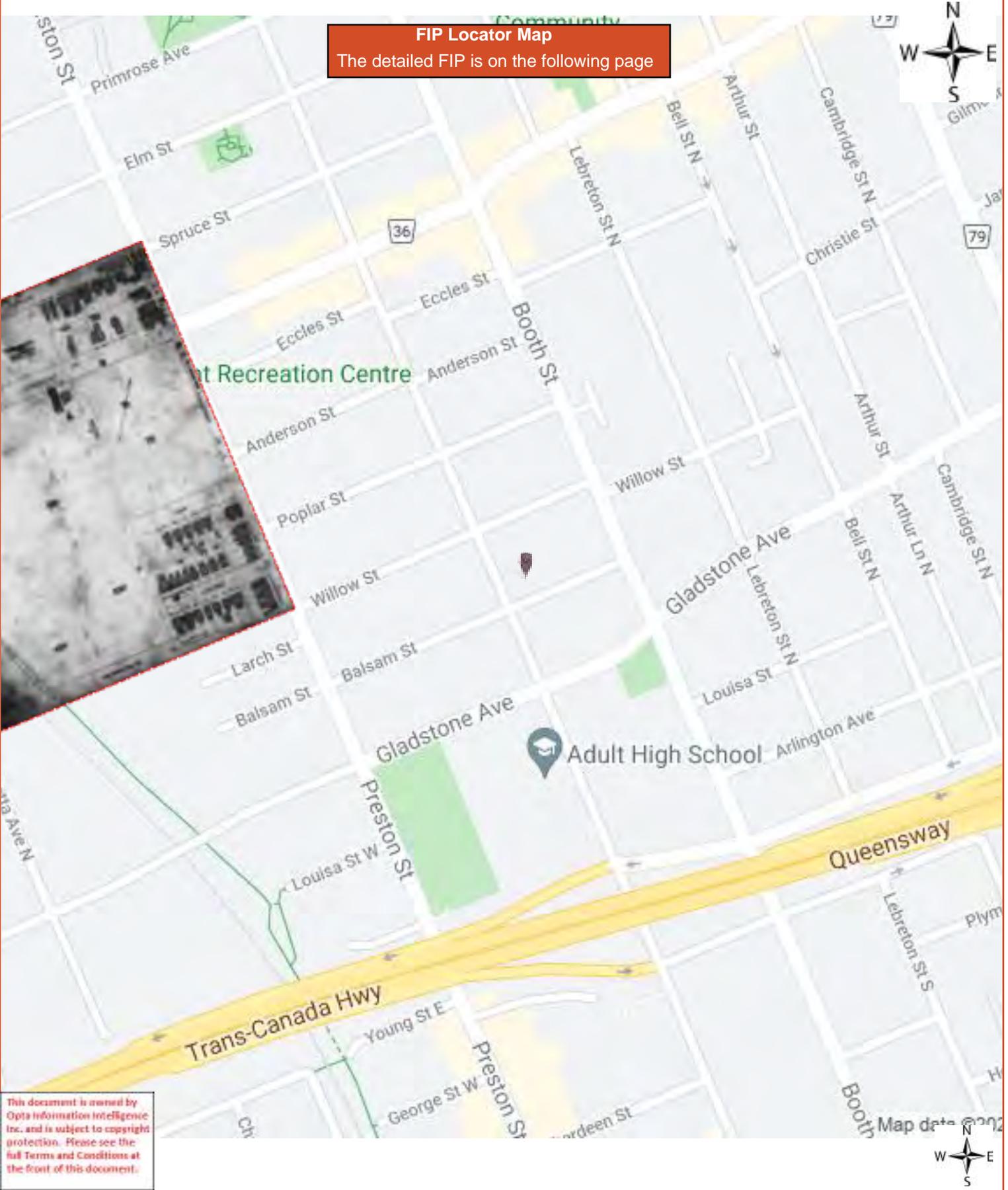


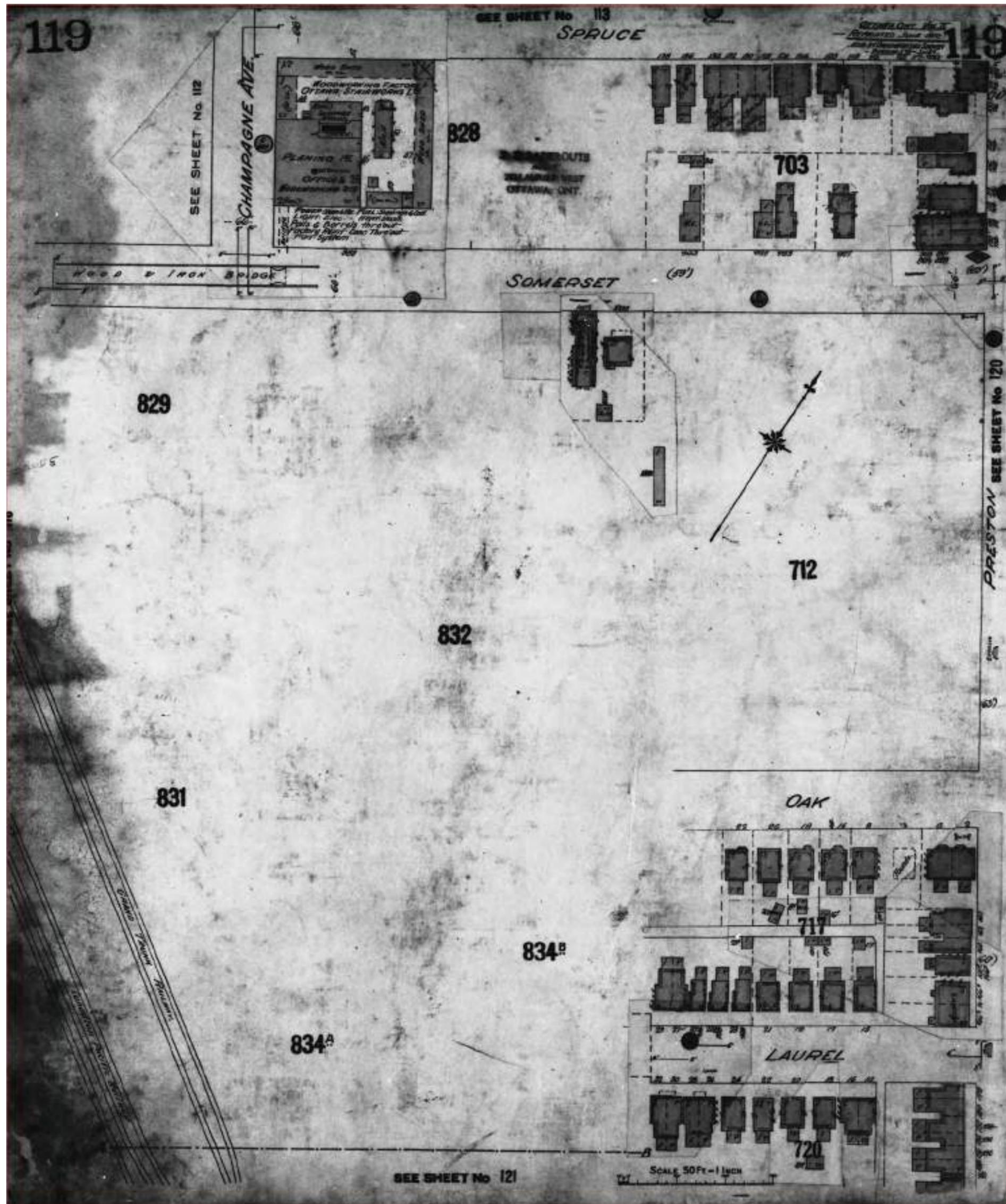
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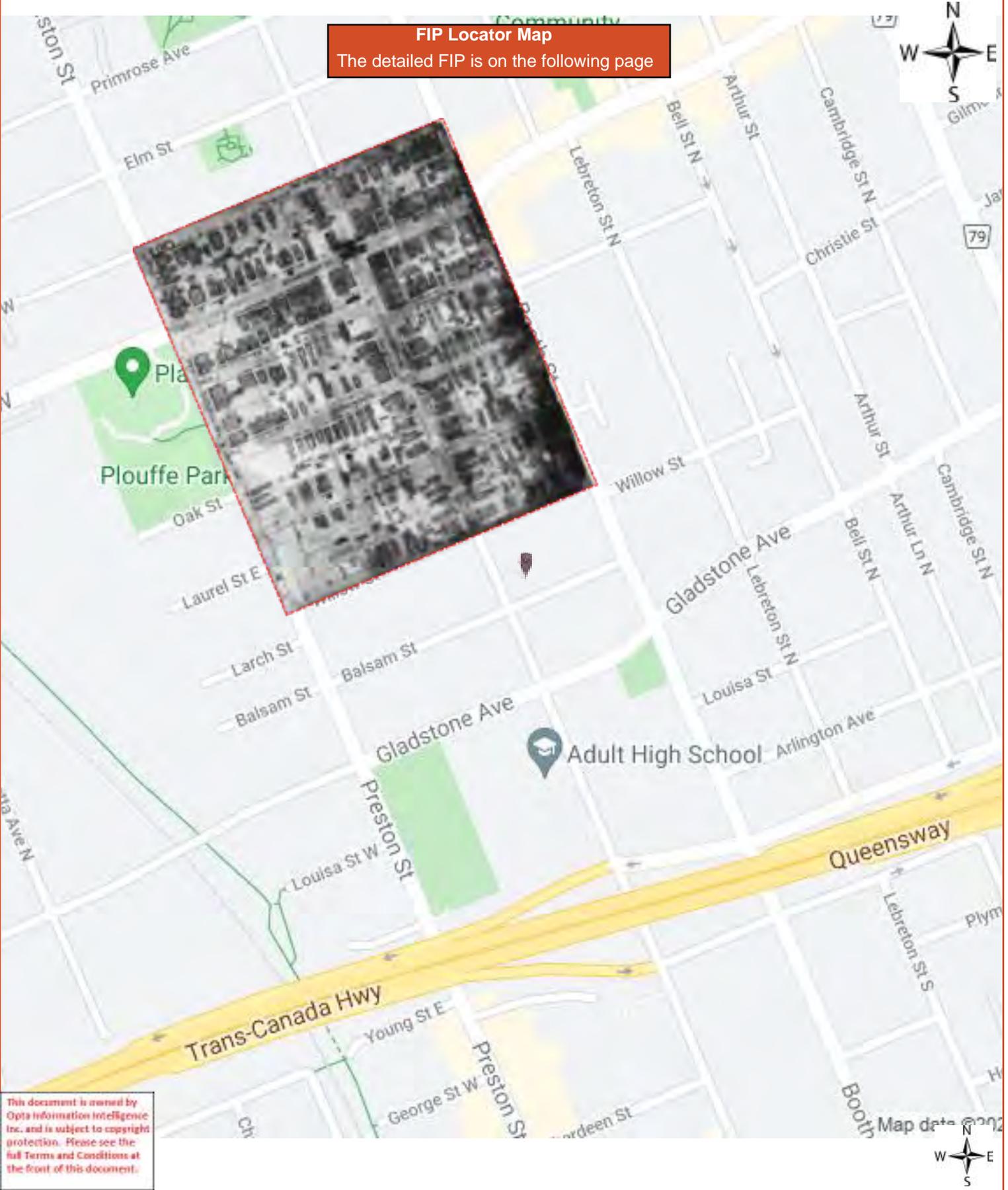


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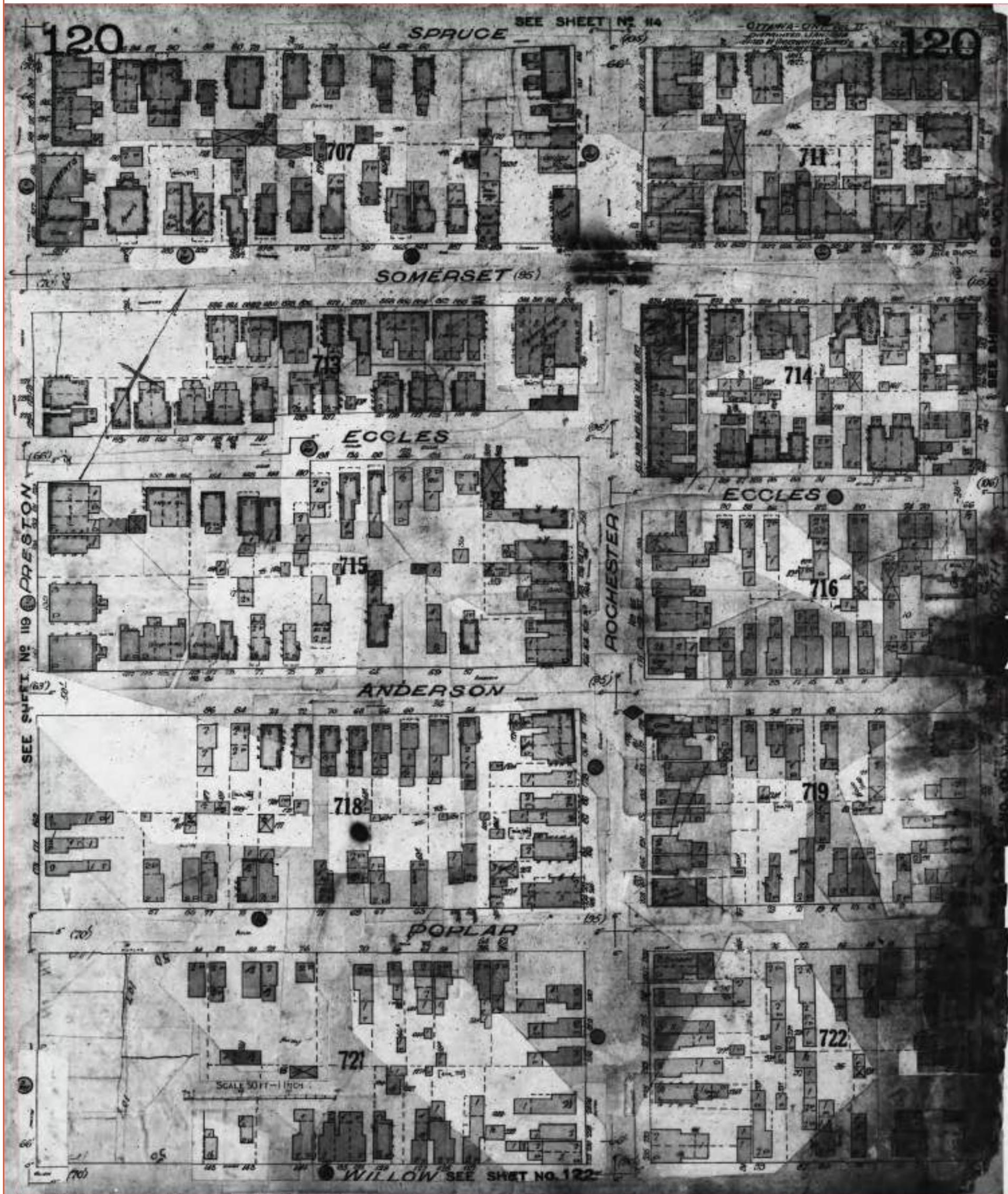






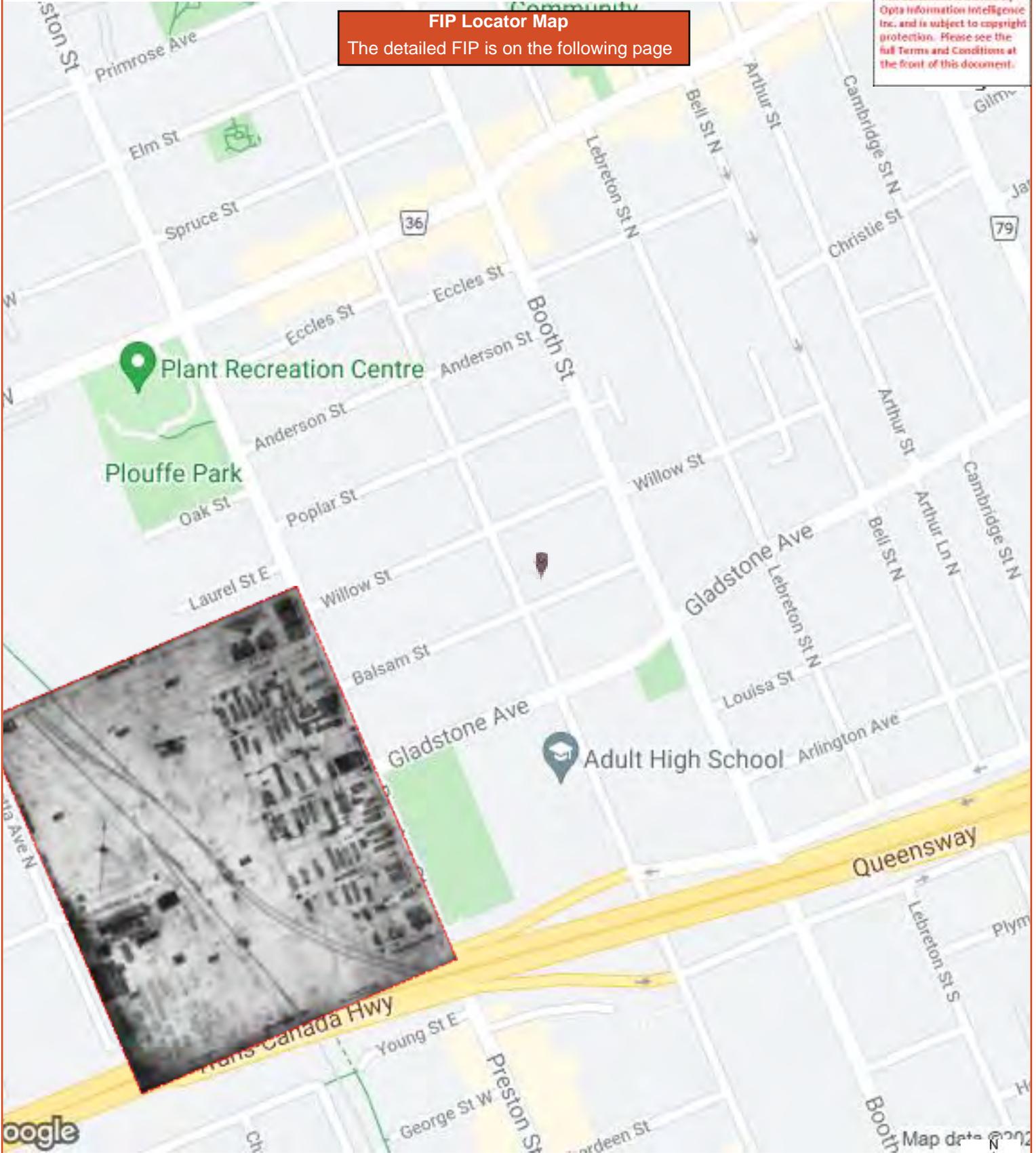


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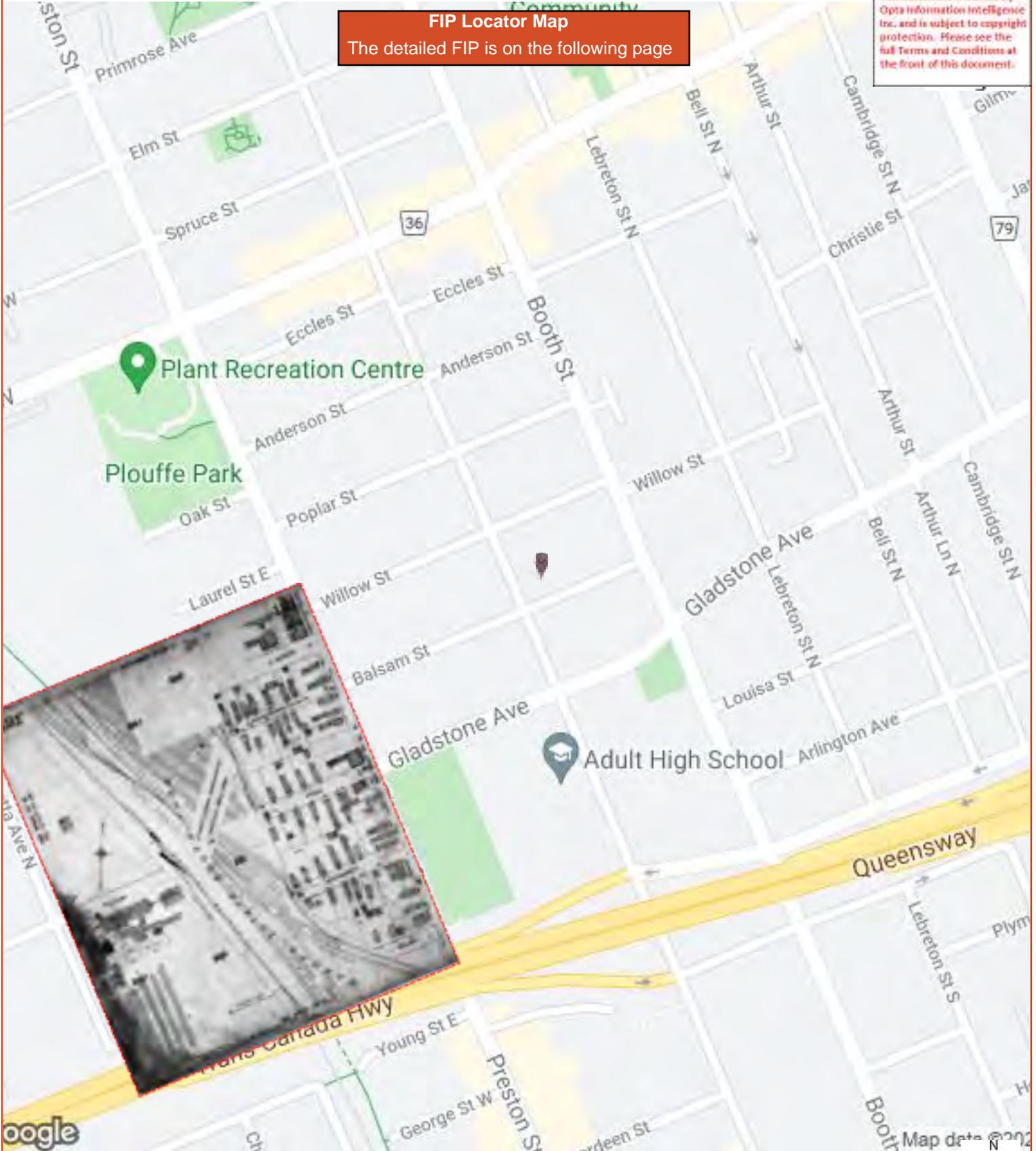
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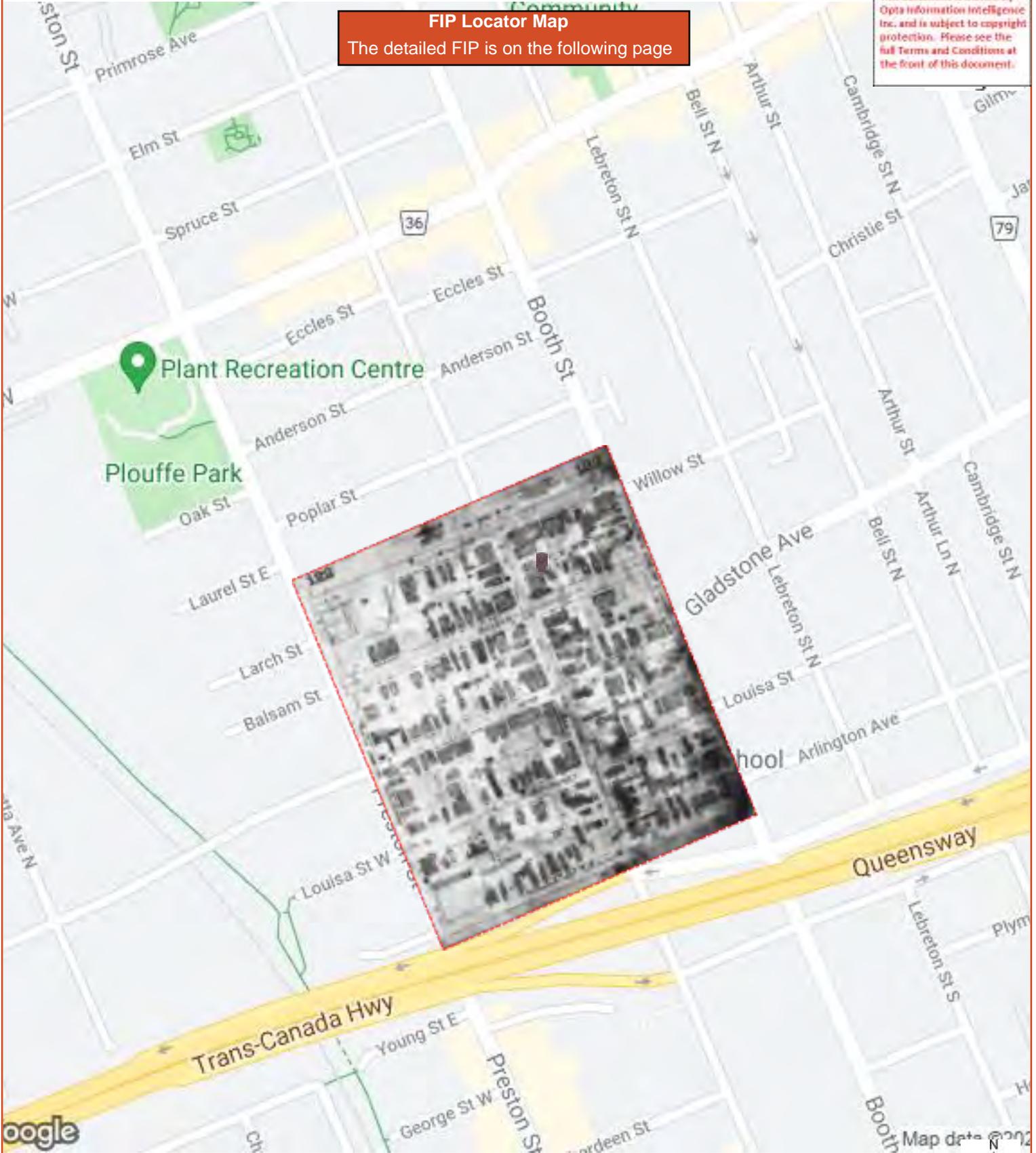
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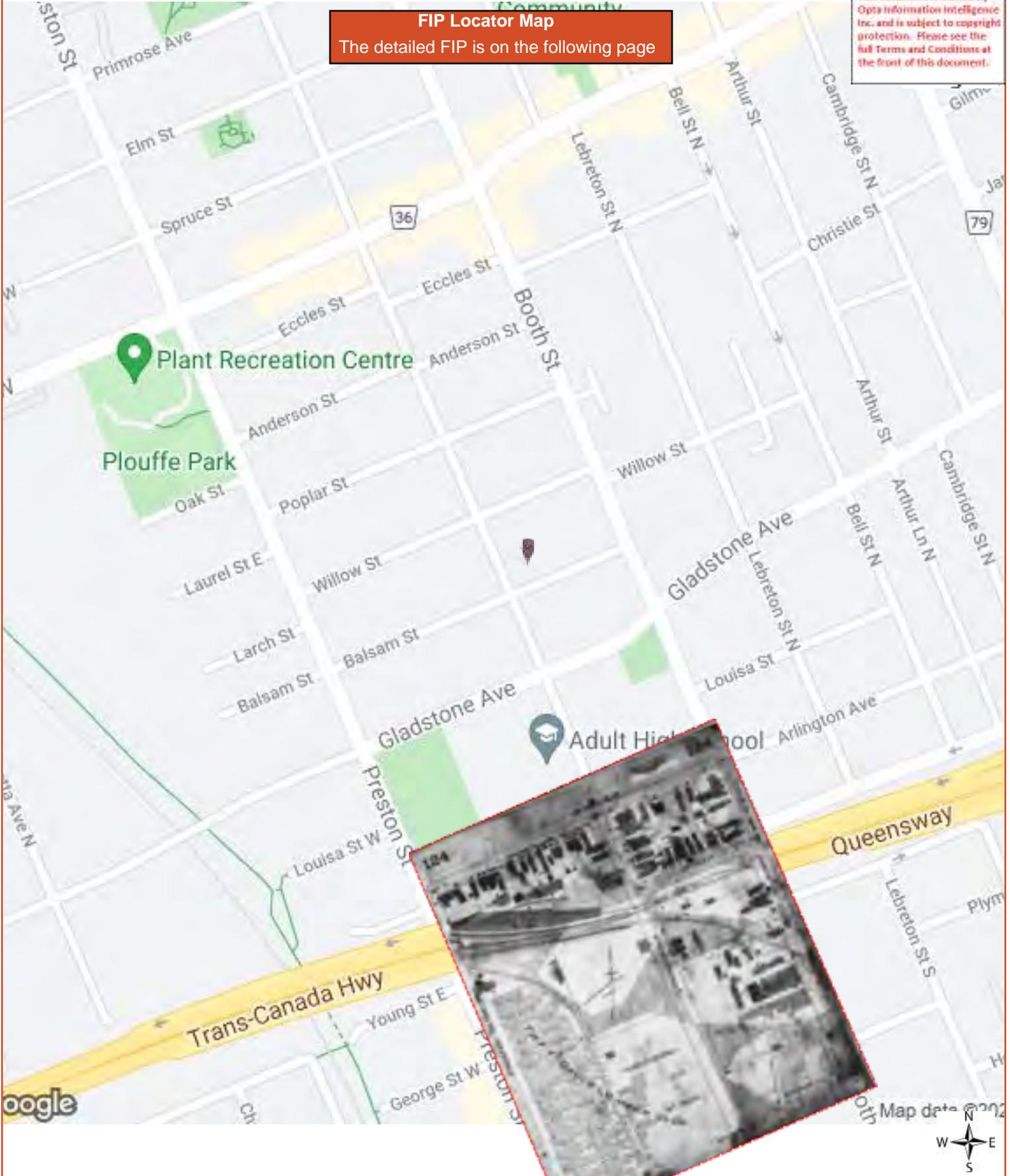
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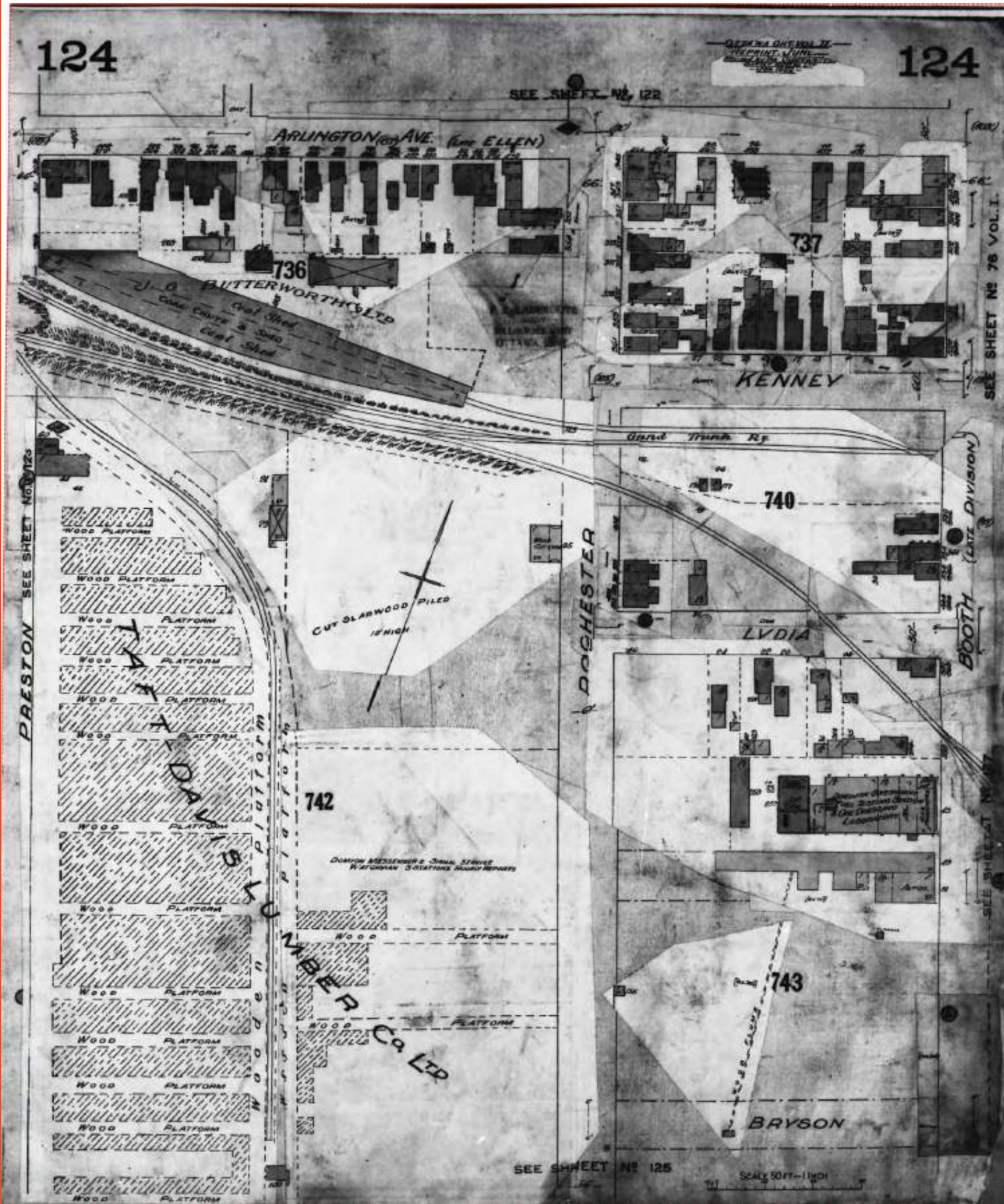
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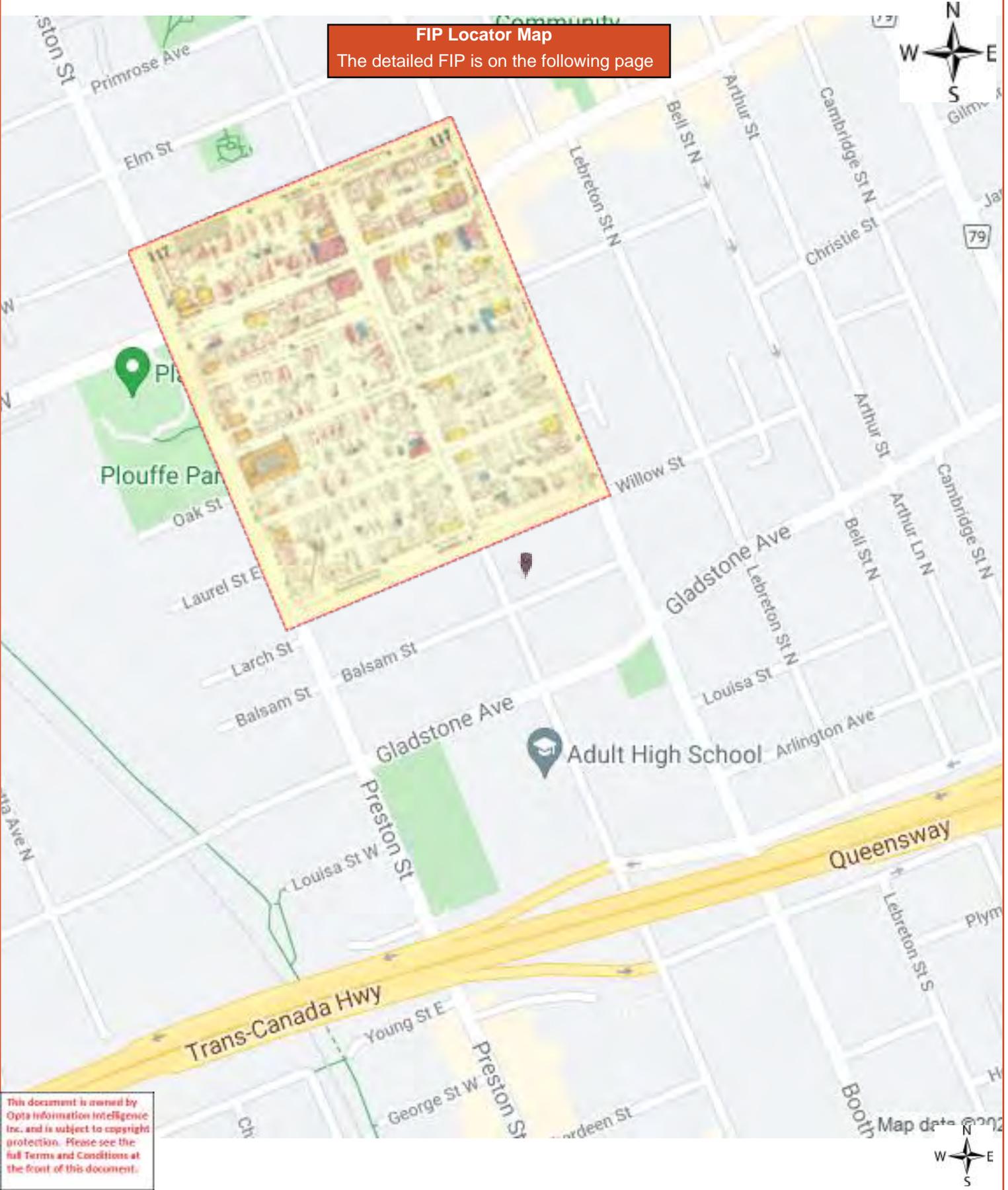


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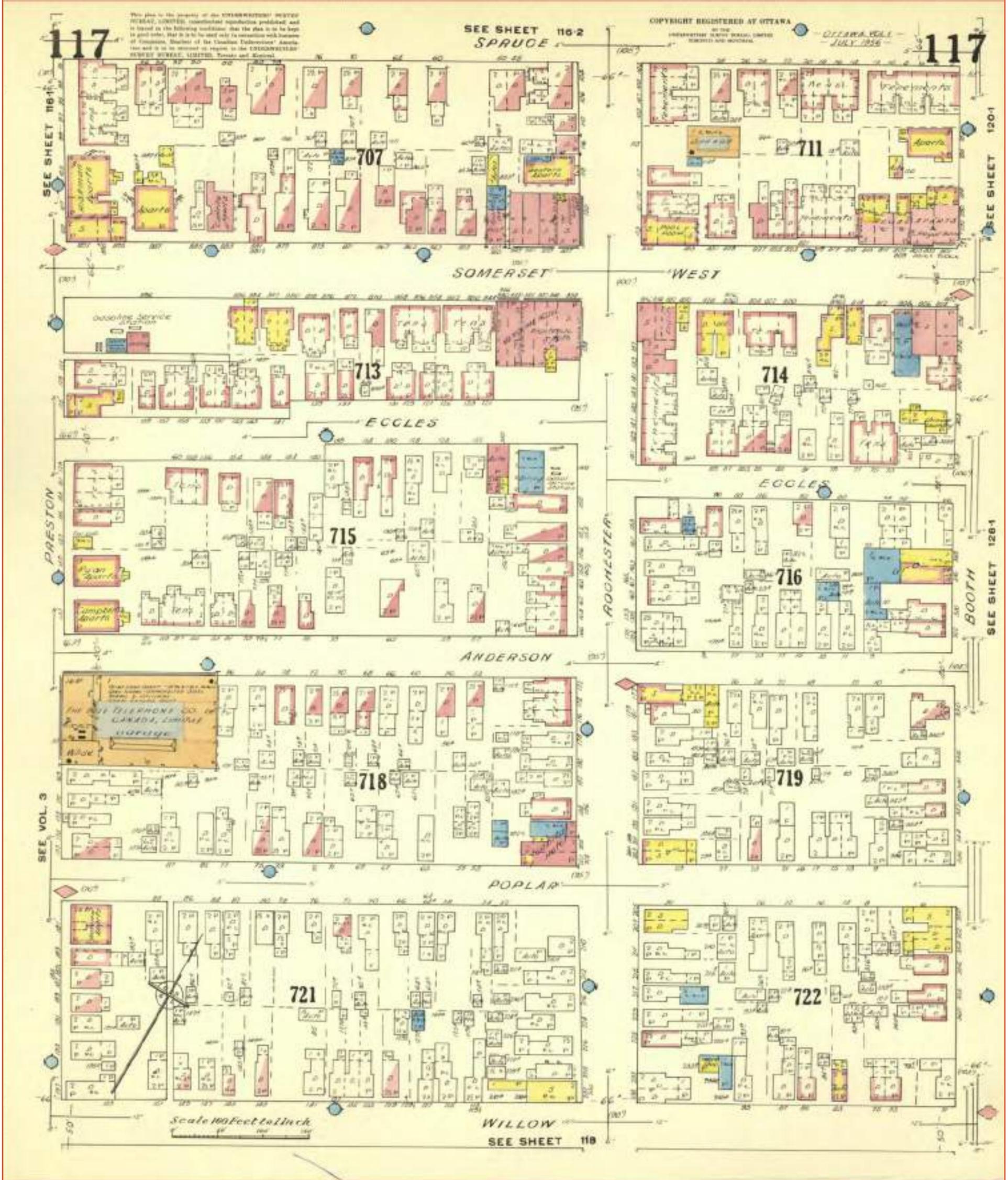
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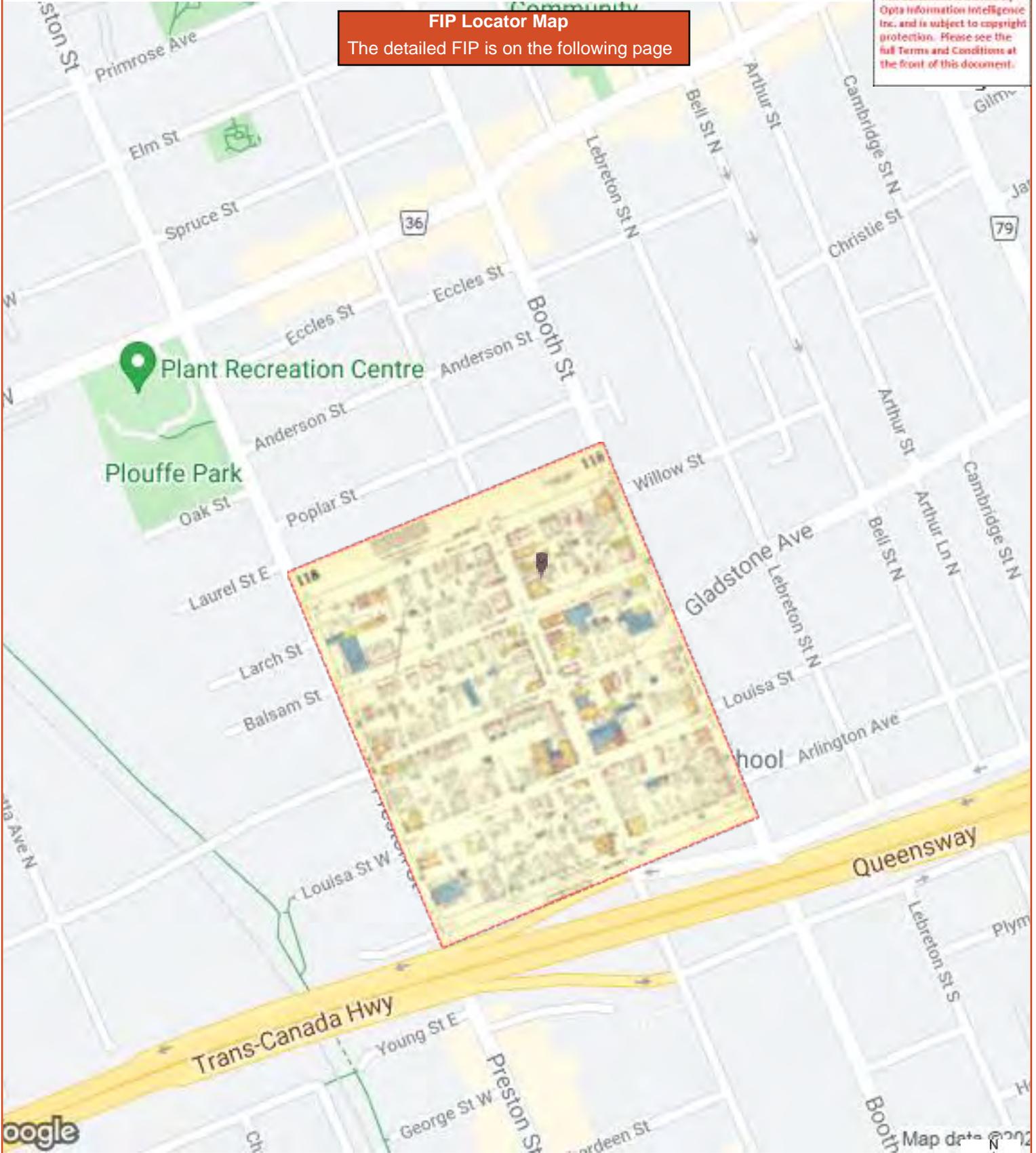


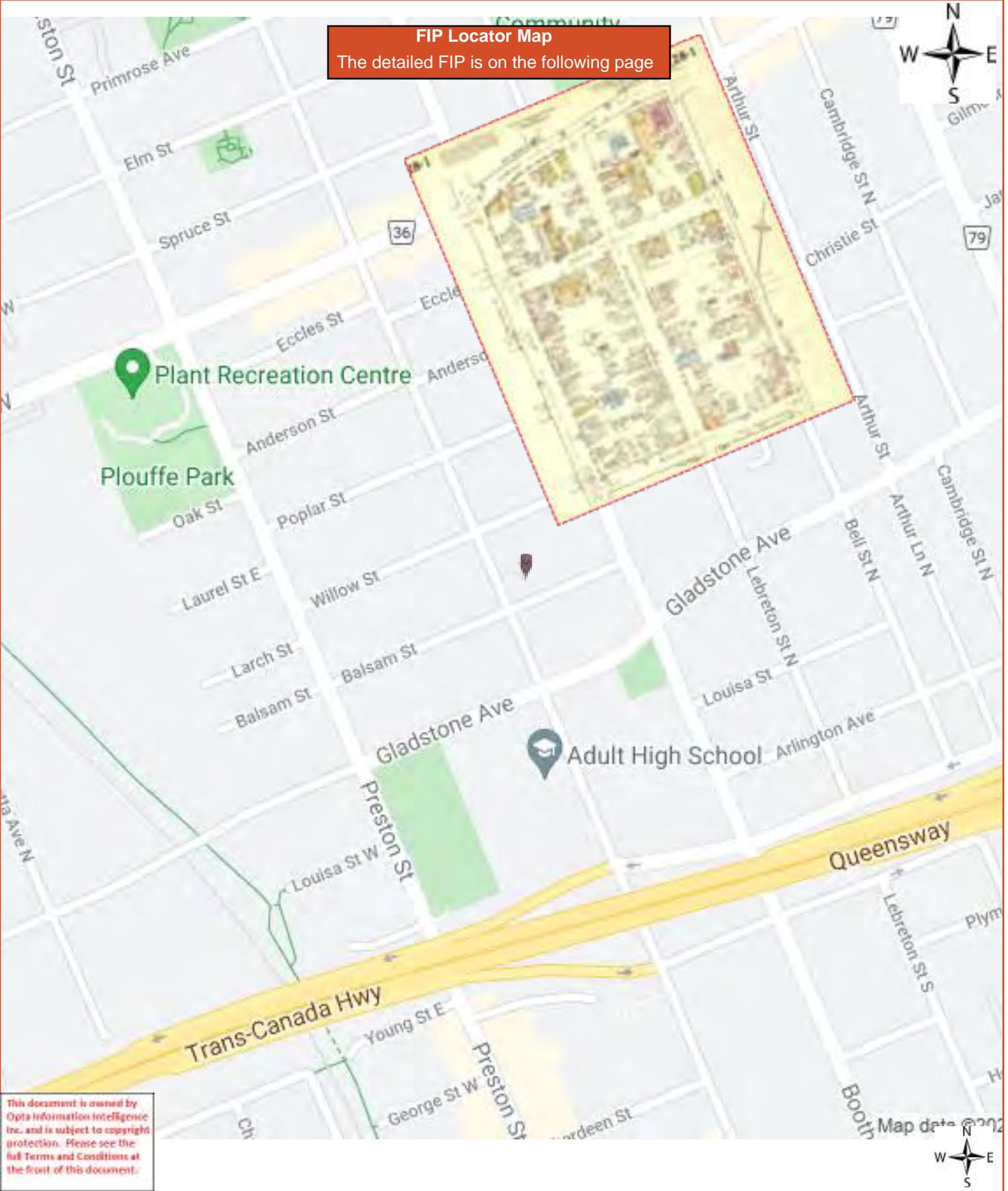
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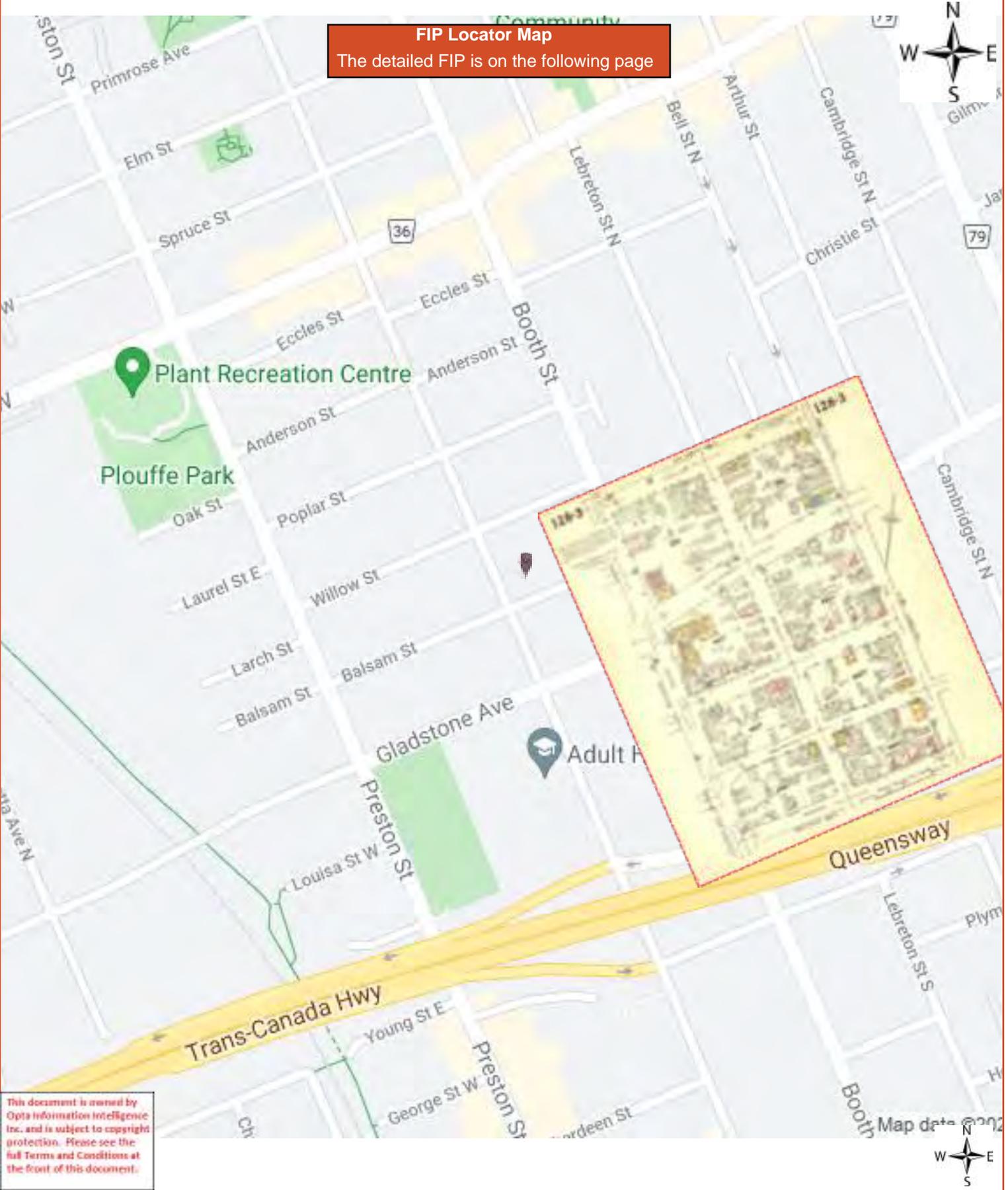
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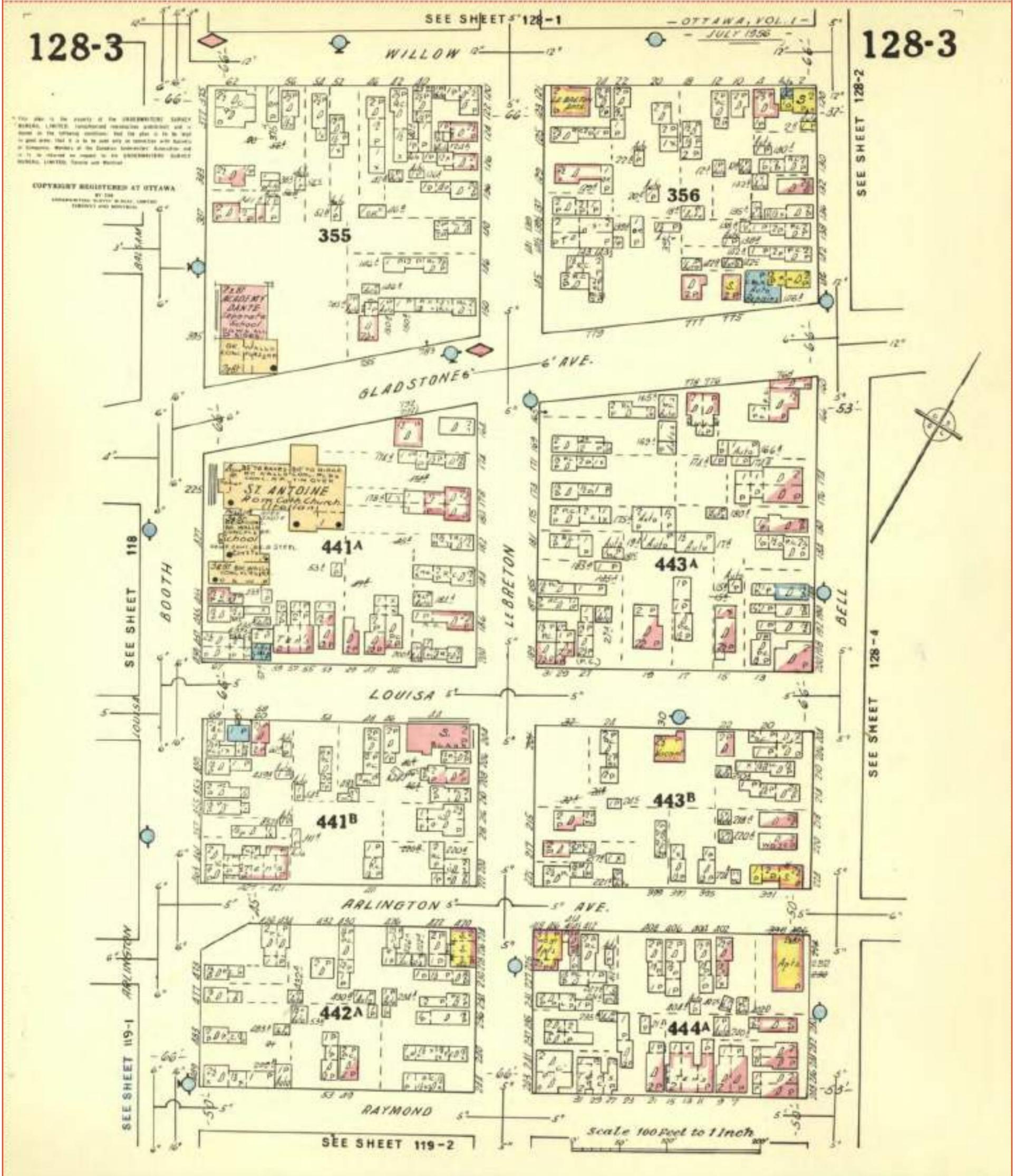
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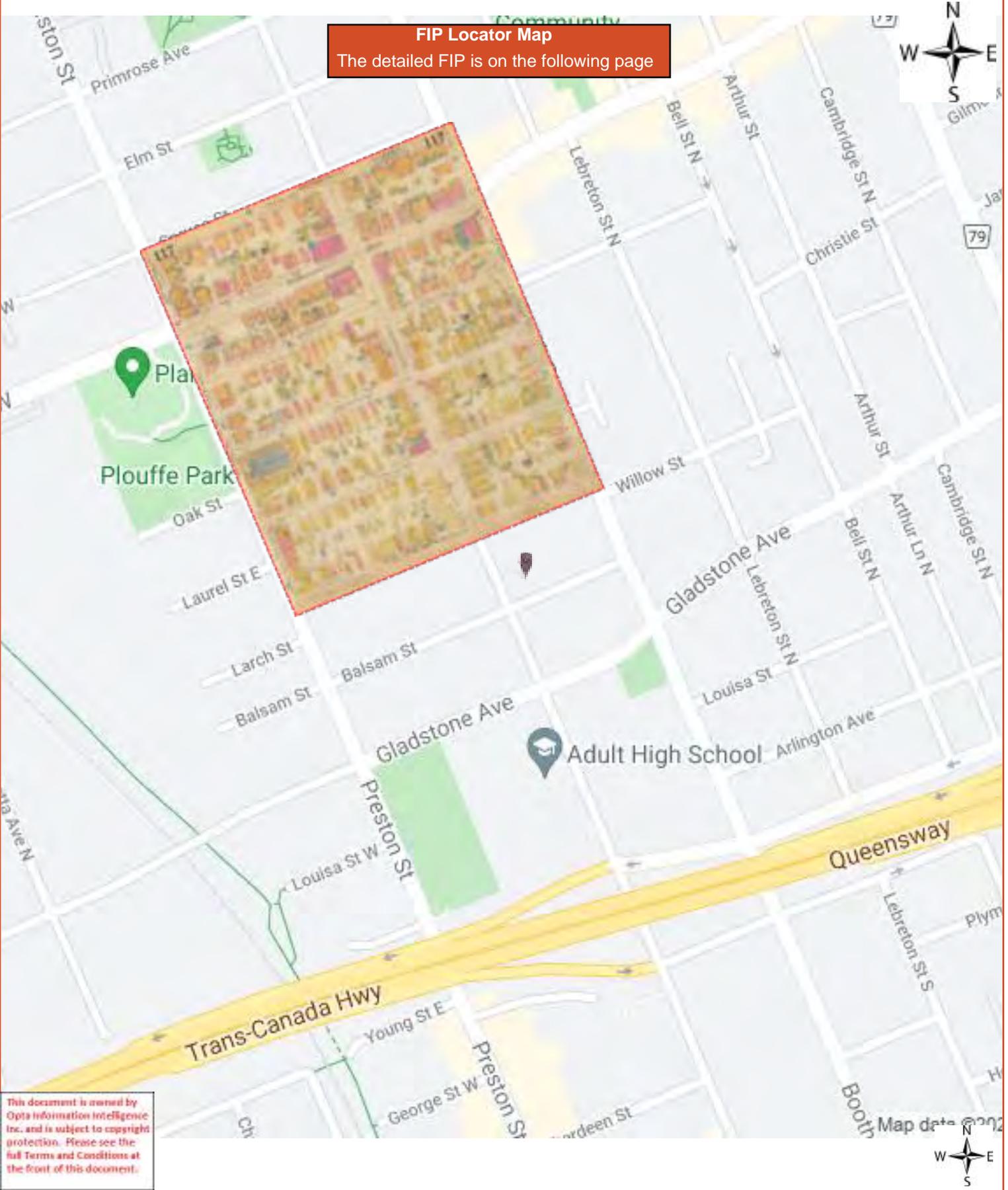


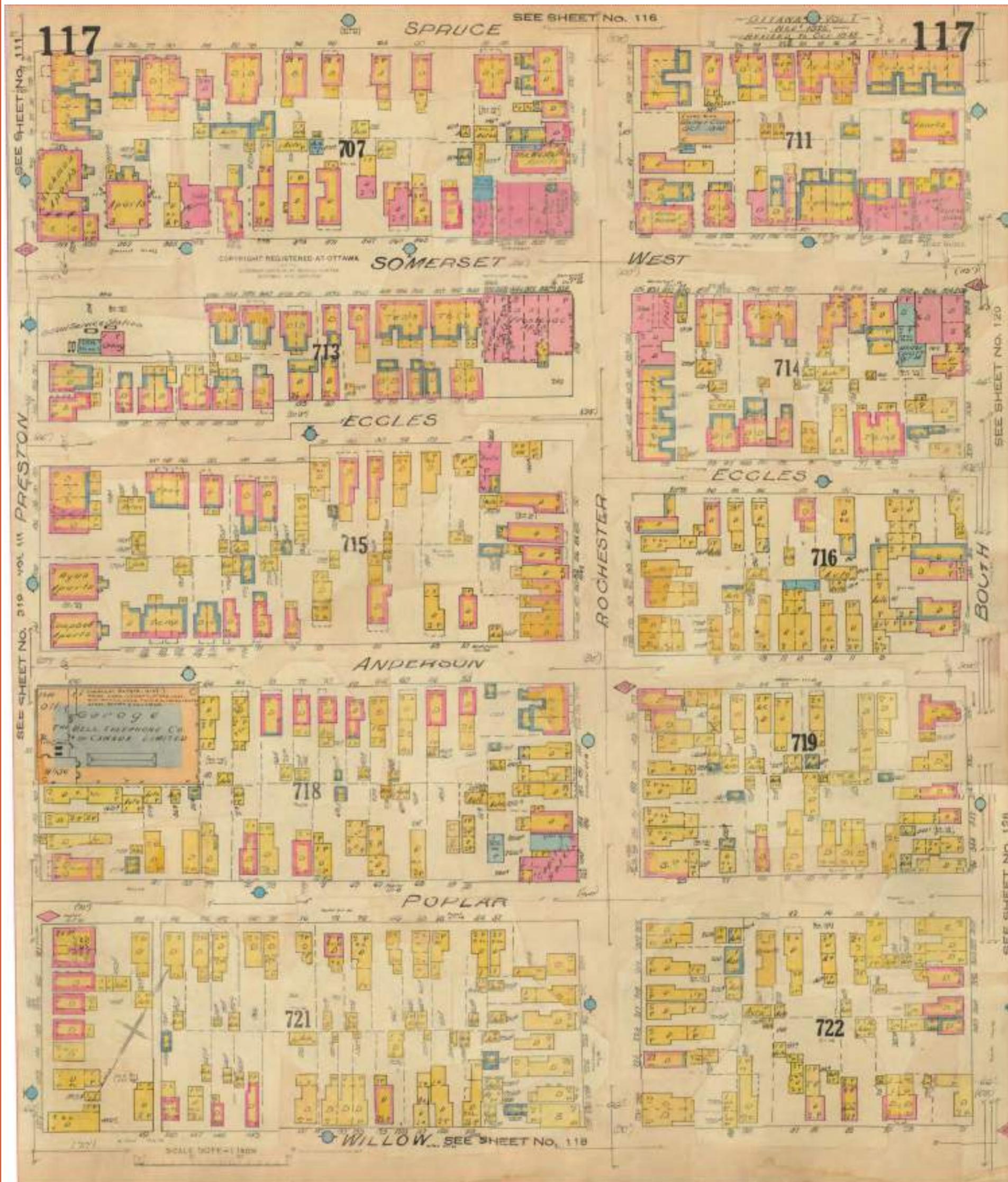


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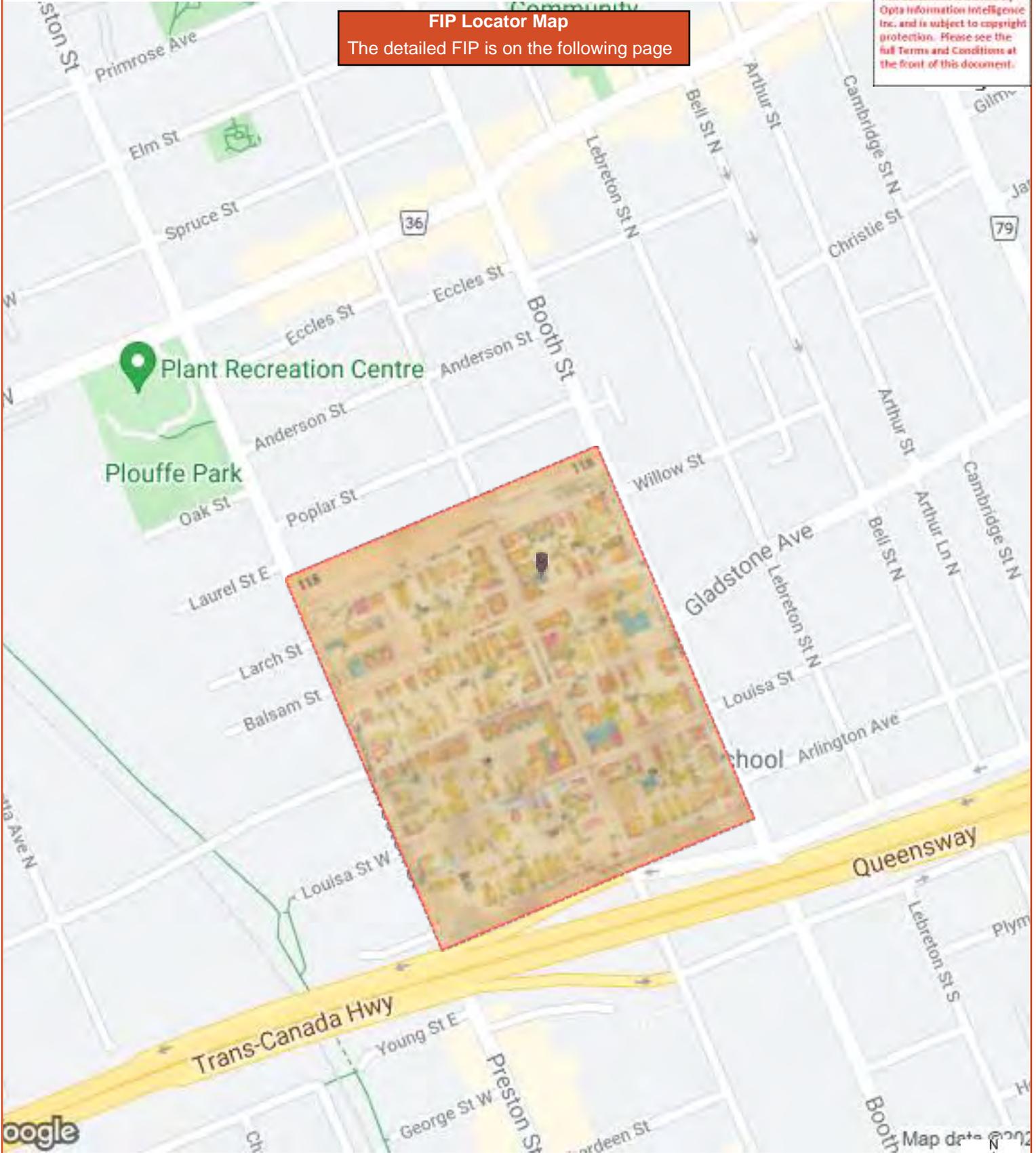


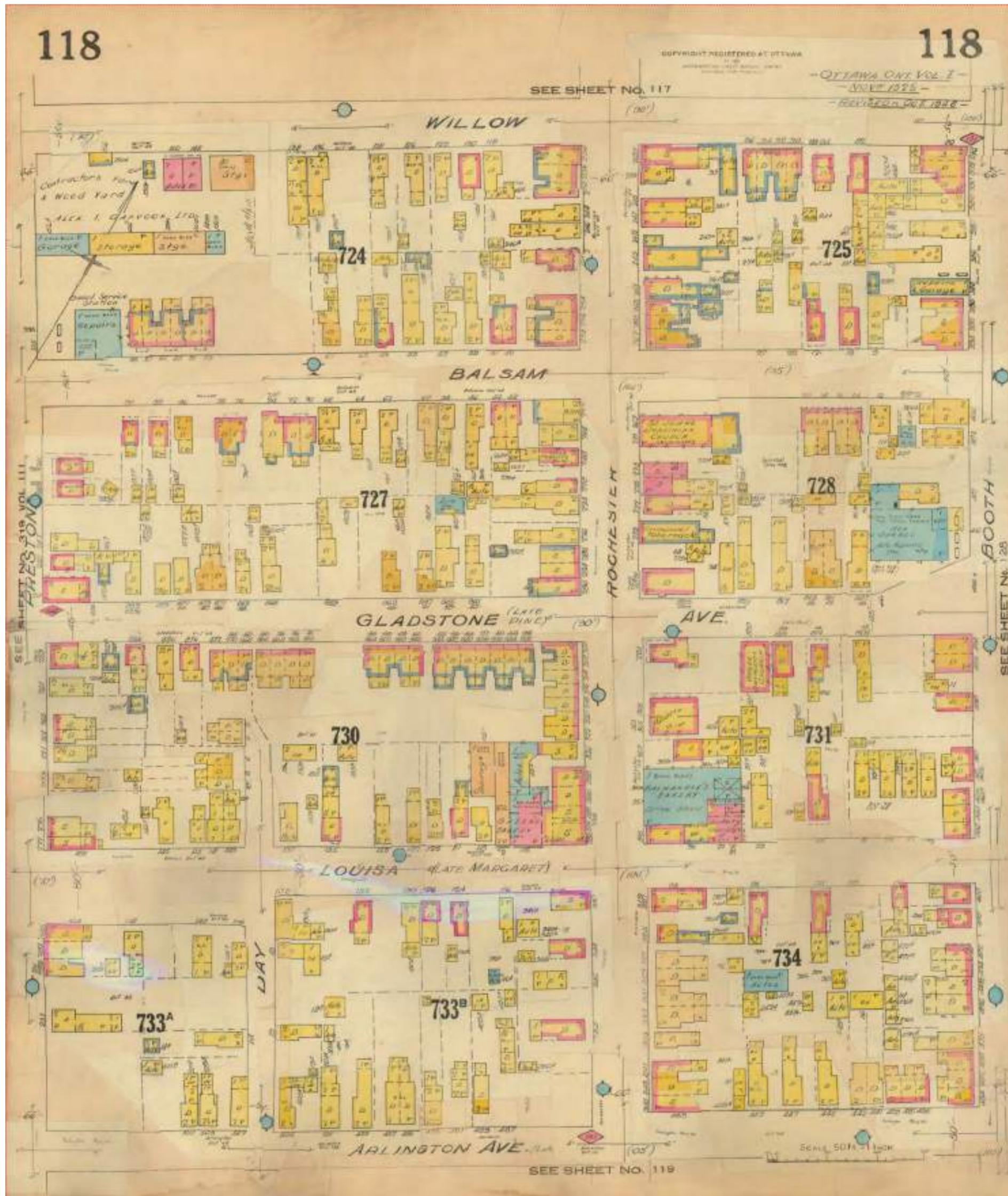




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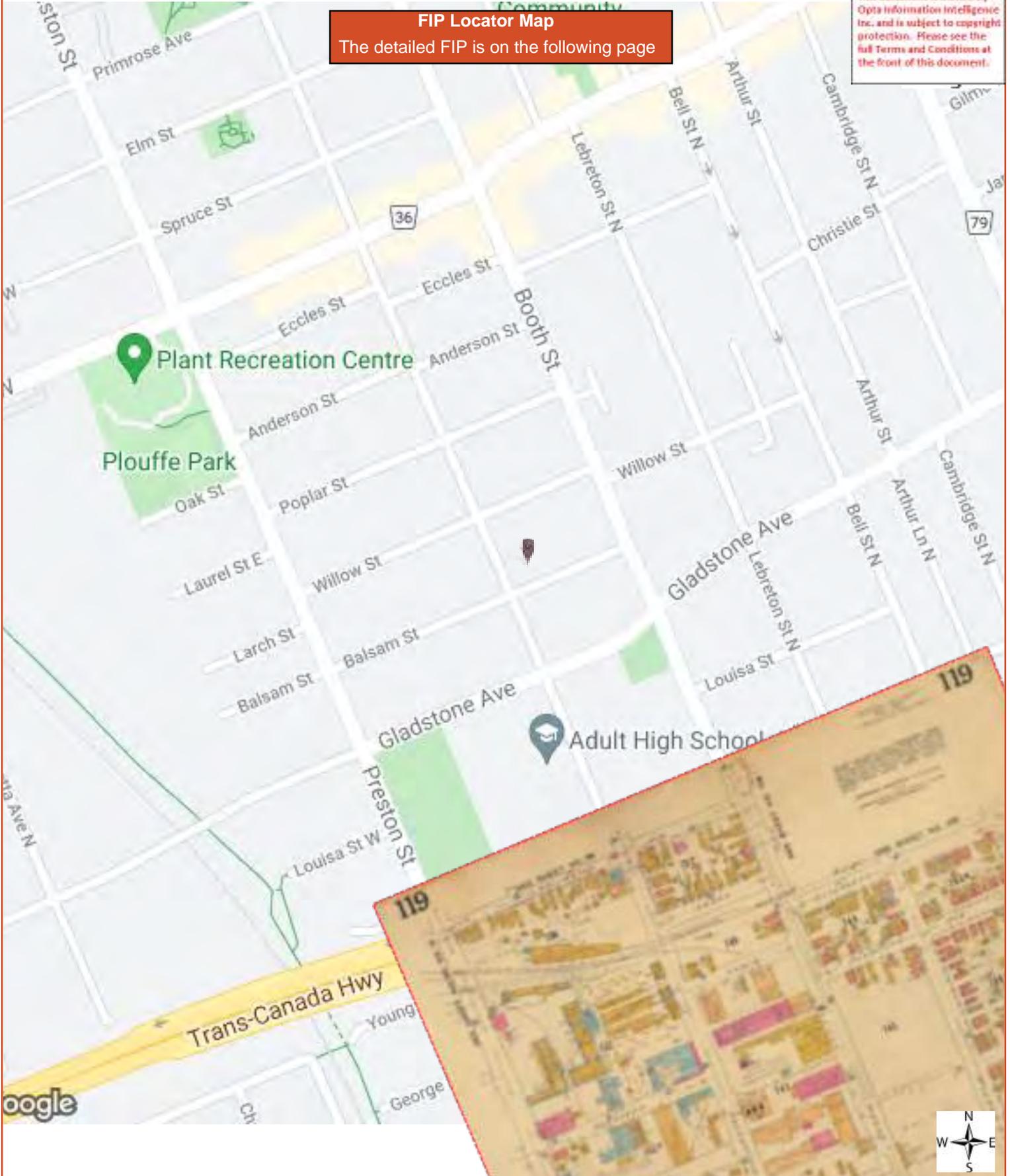
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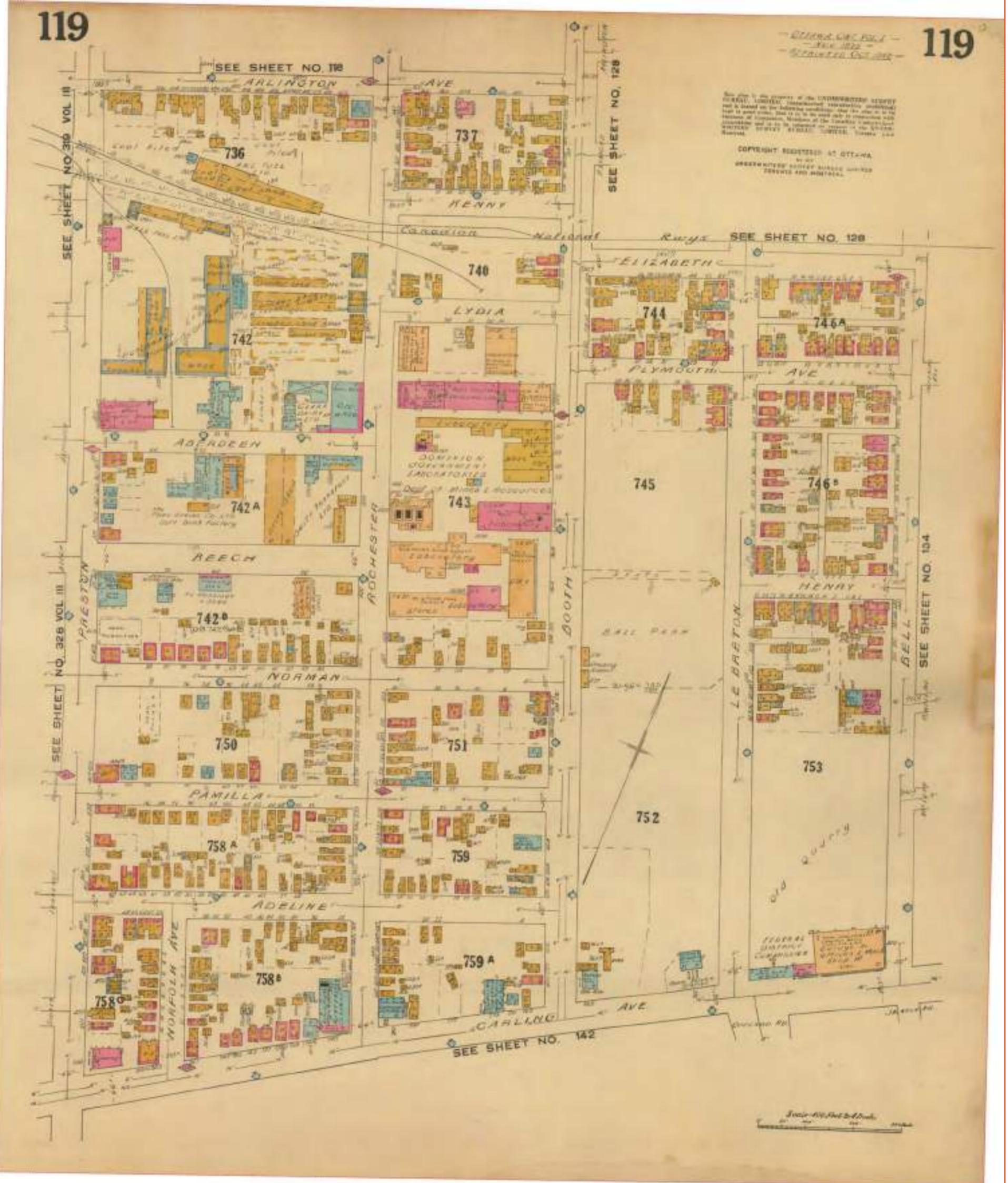


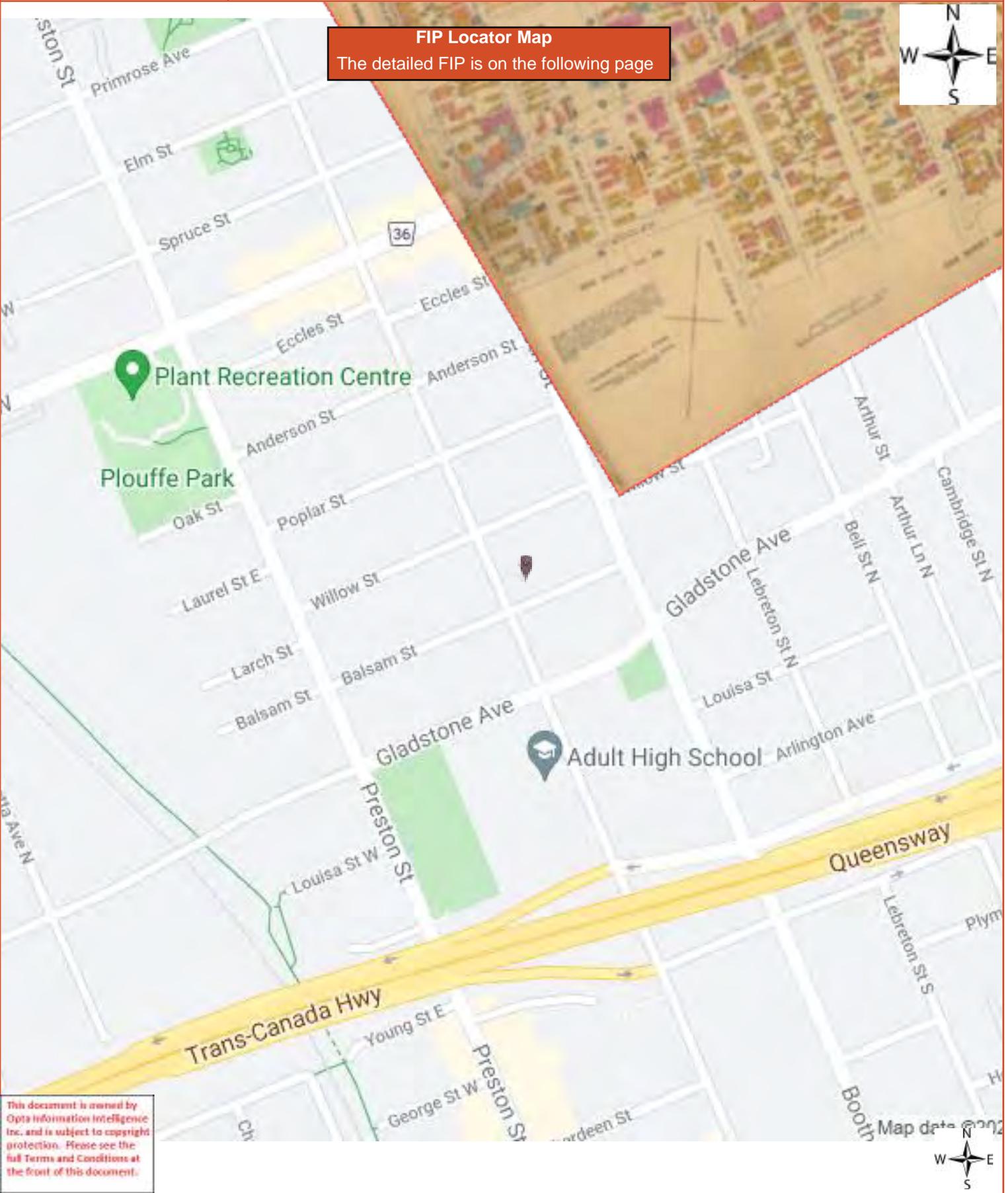


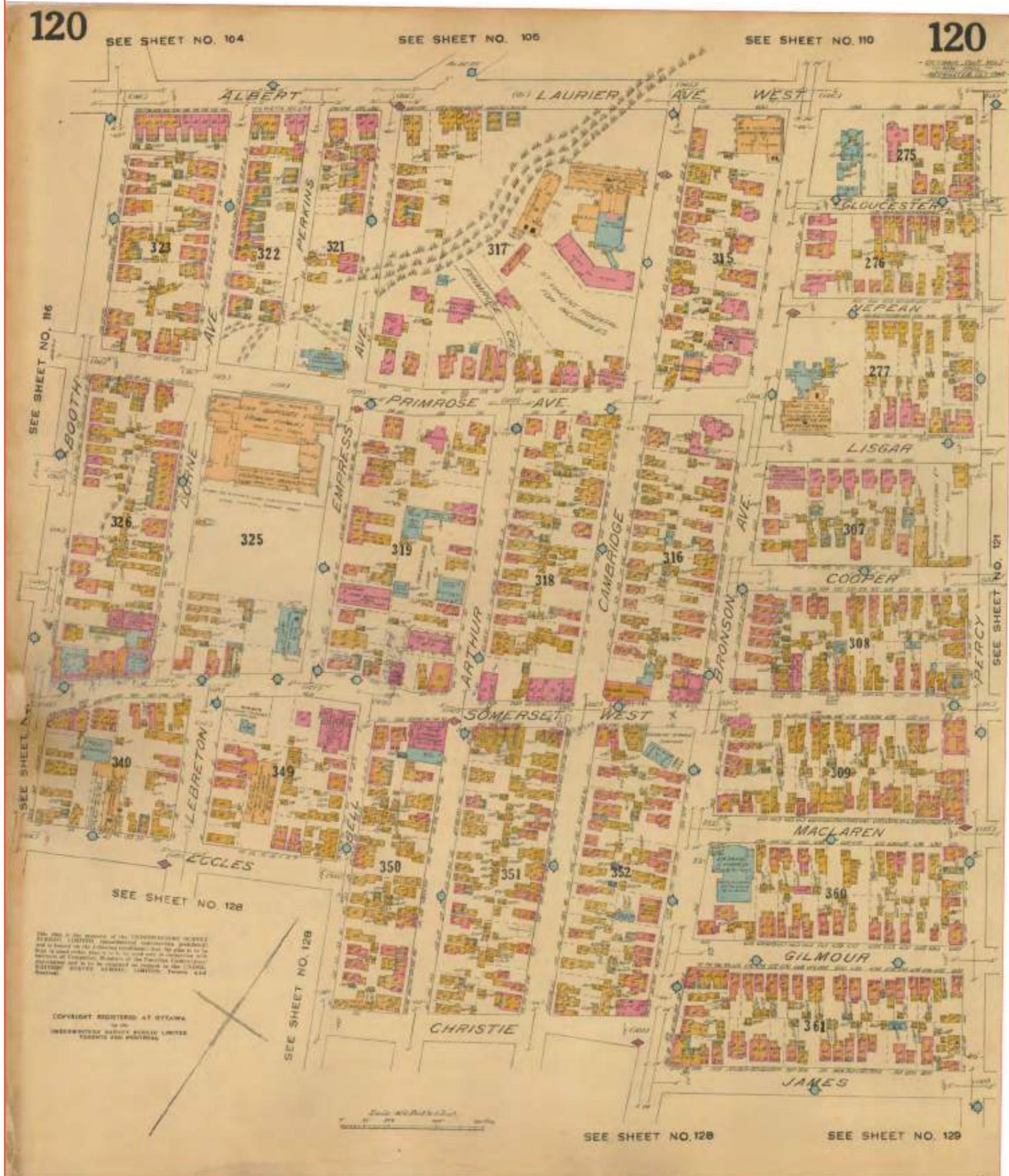
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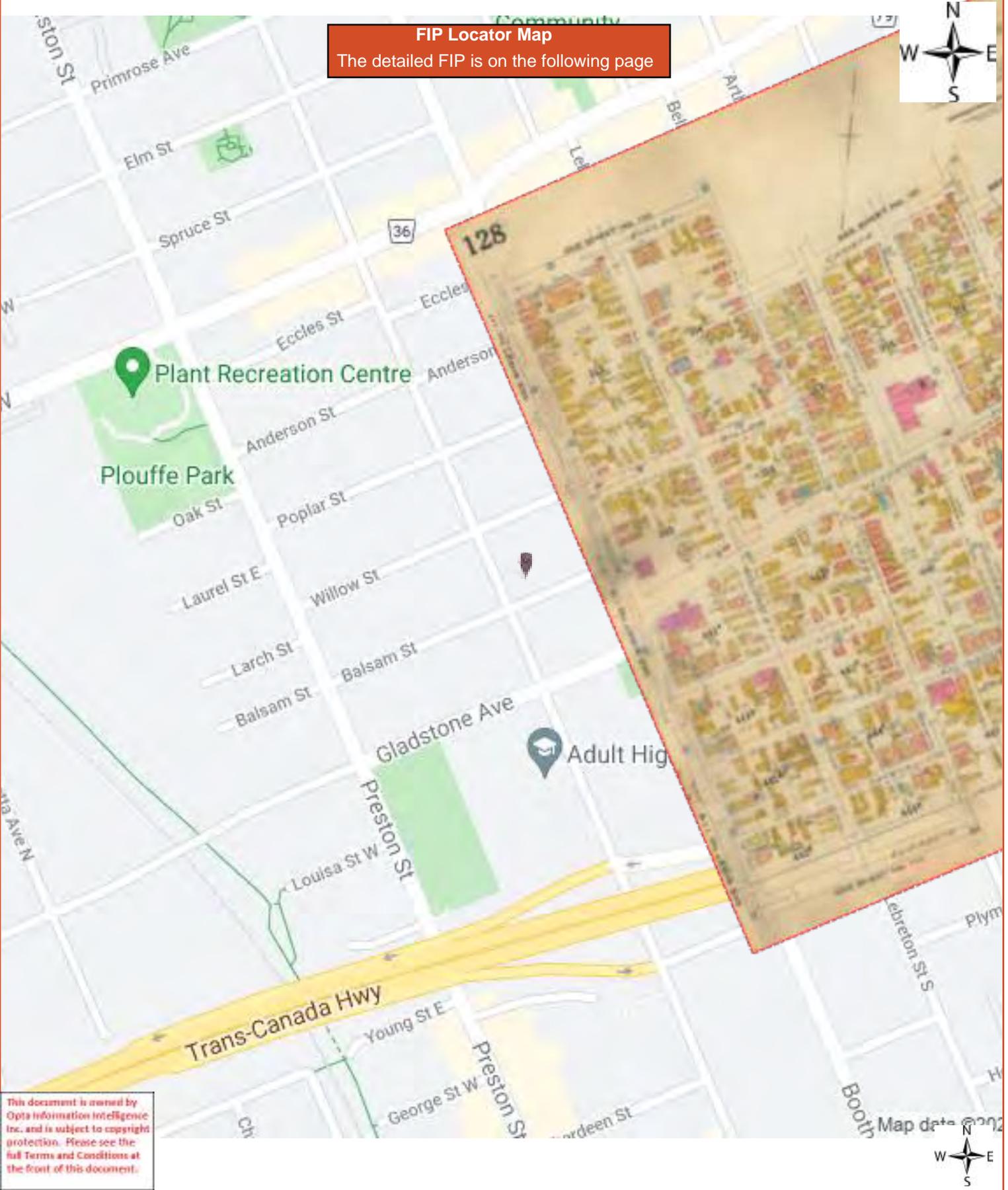
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Commercial Property Fire Rating Form Report - 1985 263-267 Rochester Street Ottawa ON K1R7M9





COMMERCIAL PROPERTY FIRE RATING FORM

CODING

IND.	TERR.	CONS.	PROY.
722	65	5	2

LOCATION STIA-R NAME _____ FILE NO. _____

ADDRESS 263-267 ROCHSTER WIL 29-29 1/2 BASSETT Insp'd. by K HUNT Date 19 APRIL 85
Rated by C FORESTER Date 21 APRIL 85

BASIC CONSTRUCTION: (SECTION II)

WALLS (ITEMS 210-215)

Construction Class 5 Bldg. Comb. Class 123

WALL AREA	MASONRY		FIRE RES.		NON COMB	COMB	DETAIL OF WALL CONSTRUCTION	% OF WALL PERIM	POINTS	CHARGES
	Wall Type	Wall Thick.	Dam. Type	Fire Res.						
	W.		D.	HR		✓	B.V.	51 %	300	= 153
	W.		D.	HR		✓	M.C.	49 %	352	= 172
	W.		D.	HR				%	x	=
	W.		D.	HR				%	x	=
	W.		D.	HR				%	x	=
	W.		D.	HR				%	x	=
								%	x	=
								%	x	=
								%	x	=

Columns in (or adjacent to) non-bearing masonry walls: Unprot. metal Comb.
Panels in masonry or fire resistive walls: Comb. Non-comb. Glass Slow burning
Special Conditions (Describe).....

FLOOR(S) AND ROOF (ITEMS 220-223)

LEVEL	DIMENSIONS	MAS. or F. R.		NON COMB	COMB	DETAILS OF FLOOR/ROOF MATERIALS	% of Total Floor/Roof Area	POINTS	CHARGES
		Dam. Type	Fire Res.						
Grade -	<u>200</u>	D	HR		✓	WOOD JOIST	%	x	=
		D	HR				%	x	=
		D	HR				0 %	x	= 300
		D	HR				0 %	x	= 7
Roof		D	HR		✓	WOOD JOIST	%	x	=

Total Basic Construction Charges:

Schedule Base	+	150
Building Base	=	775
BASIC BUILDING RATE:		775

Building Base x 1.0 Comb. Modifier (ITEM 230) x .001 = BASIC BUILDING RATE:

(carried fwd, overleaf) *

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SECONDARY CONSTRUCTION: (SECTION III)

							% CHARGE	
Height: (ITEM 300) Nbr. Storeys	<u>2</u>	Bast.	<u>262</u>	Comb. Storeys (Without ground level access)	<u>1</u>		10	
Vertical Openings: (ITEM 310)	Type	Fm	To	Enclosure	Doors	% Chgs.		
	<u>V4</u>	<u>3500</u>	<u>157</u>			100	20	
	<u>V4</u>	<u>121</u>	<u>200</u>			100	10	
Area: (ITEM 320)	x	x	x					
Grade Floor Area	<u>171</u>	Total Area	<u>491</u>	Effective Area	<u>491</u>		-	
Roof Surface: (ITEM 330)	Approved <input checked="" type="checkbox"/>	Other (Described)						
Combustible Concealed Spaces: (ITEM 340)	Roof Space; Percentage of total roof area	<u>-</u>	%					
	Ceiling Space; Percentage of total floor area	<u>-</u>	%					
Combustible Interior Construction: (ITEM 350)	Floor Surfacing; Percentage of total floor area	<u>-</u>	%					
	Interior Walls or Partitions; Percentage of total exterior wall area	<u>-</u>	%					
	Mezzanines or Decks; Percentage of total floor/roof area	<u>-</u>	%					
Combustible Interior Finish or Insulation: (ITEM 360)	Walls; Percentage of total area of exterior walls; Ord. Dam.	<u>-</u>	%	Spec. Dam.	<u>-</u>	%		
	Roof & Floor(s); Percentage of total area of ceilings; Ord. Dam.	<u>-</u>	%	Spec. Dam.	<u>-</u>	%		
Combustible Exterior Finish or Attachments: (ITEM 370)								
Building Condition: (ITEM 380)	Good <input type="checkbox"/>	Average <input checked="" type="checkbox"/>	Poor <input type="checkbox"/>					
Total Secondary Construction Charges:							40	

(carried fwd, overleaf) **

St. No. Floor	Floor Area	% of Total Area	Occ'y Item No.	Name and Description of Occupancy and Hazards	Basic Occ'y Charge	h d Charges	Sep'd. Occ'y Factor	Total Occ'y Charge	Comb. Cl.	Susc. Cl.	Ind. Code	
Common Hazards Applicable to Building				ELECTRIC H A ALL		10						
				INEFFICIENT CLEARANCE		25						
	287		224	DWELLING	-				62	52	722	
	104		514	DAY CLEANER	125			125	73	53	722	
				91.1 & 91.15 (600' IS) CLEARANCE		NA						
TOTAL											Building IND. CODE	722

Major Occupancy Charge 125 %
 20% of _____ (next 10 highest additional Total Occupancy Charges) - %
 Common Hazards applicable to the Building 35 %
 Net Occupancy Charge 160 %
 L1, L2 Area _____ %
 Net Occupancy Charge x _____ Occ'y Mod. Factor (ITEM 418) = _____ %
 ** Total Secondary Construction Charge (brought forward from overleaf) + 40 %

*E. C. EXTRA		
IND. CODE	PERIL	ADD'L RATE

EXPOSURE: (SECTION VIII) Non Chargeable

Facing Wall of Exposure					Facing Wall of Risk			Exposure Distance
Max. Serv. Prot.	Max. Unprot.	Non Comb.	Comb. Class	Lth/Ht	Comb. & Non Comb.	Masonry Unprot.	Masonry Serv. Prot.	

Exposure Charge + _____ %
 Party Wall Charge (ITEM 831) + _____ %
 Communication Charge (ITEM 832) + _____ %
 + 100 %

(brought forward from overleaf) BASIC BUILDING RATE 275 x 300 % = UNPROTECTED BLDG. RATE 2.325

MUNICIPAL PROTECTION: (SECTION IX)
 F.U.S. Prot. Class 3 Revised Prot. Class _____
 Dist. to Hydrants: Stdr. Non Stdr. m. Accessibility: Good Poor
 Dist. to Fire Hall: Stdr. Non Stdr. km. Congested Area: Yes No
 Unprotected Bldg. Rate x 44 Protection Class Factor = PROTECTED BLDG. RATE 1.025

BUILDING ADJUSTMENT FACTOR: (SECTION X)
 Protected Bldg. Rate x 128 Building Adjustment Factor = GROSS BLDG. RATE 1.309

INTERNAL PROTECTION: (SECTION XI)
 Extinguishers Stdr. _____ % Credit W. & C. Stdr. _____ % Credit
 S.P. & H. Stdr. _____ % Credit Automatic Fire Detection System Stdr. _____ % Credit
 Automatic Sprinklers (Describe) _____ % Credit
 Other Auto. Protection (Describe) _____ % Credit
 GROSS BLDG. RATE _____ Less _____ % = _____ Less _____ % = _____ Less _____ % = FINAL BLDG. RATE 1.309

CONTENTS RATES (SECTION XII)

FCI 26/4/83

Ind. Code	Susc. Class	OCCUPANCY	ITEM →			Susc. Charge	Hazards Adj.	Conts. Adj. Factor	Adj. Conts. Charge	Gross Bldg. Rate	Gross Conts. Rate	Int. Prot. Factor	FINAL CONTS. RATE
			1200	1210	1220								
722	52	DWELLING	.125	x	-	x	96	= .12	+ 1.309	= 1.429	x	-	= 1.429
722	53	DAY CLEANER	.25	x	-	x	96	= .24	+ 1.309	= 1.549	x	-	= 1.549
				x		x		=		=	x		=
				x		x		=		=	x		=
				x		x		=		=	x		=
				x		x		=		=	x		=



Commercial Property Fire Inspection Survey Report - 1983 G.Q Livreo 263-267 Rochester Street Ottawa ON K1R7M9





INSURERS' ADVISORY ORGANIZATION OF CANADA

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Mercantile Risk
 Miscellaneous Risk

COMMERCIAL PROPERTY FIRE INSPECTION SURVEY FORM

(Use this form for all Non-Manufacturing risks, and some Manufacturing risks with five hands or less, of all construction, but excluding Sprinklered properties)

Address: No. 263-267 Street/Road Etc., Rochester Street incl 29-29 1/2 Balsam Street
Municipality Ottawa (Formerly)
Owned by: G. A. Livers Occupied by: Tenants
Age of building (Built in) 2005: Additions (Built in) _____: _____: _____: _____: _____
Is building completely finished & out of workmens hands? Yes ; No IBC Code: Terr: 033 Ind: _____ Cons: _____ Prot: 2

BASIC CONSTRUCTION - (SECTION II)

- EXTERIOR WALLS:

NSEW (Refers to compass point direction of wall, i.e. North, South, East or West)
 INDEPENDENT BEARING NON-BEARING PARTY PARAPET
(Describe material & thickness of all walls including make-up of combustible walls & any fire retardant impregnation. Also, check off appropriate wall supports below):
brick & cement 51%
metal clad & patent clad 49%

COLUMNS OF WOOD ; HEAVY WOOD (min. 150mm x 300mm) ; UNPROTECTED STEEL ; PROTECTED STEEL , protected by _____ having a fire-resistance rating of _____ hrs.
PANELS of Non-Combustible material or GLASS ; COMBUSTIBLE (describe) _____
Wall: N. _____% S. _____% E. _____% W. _____%

- FLOORS & ROOF: (Describe Floor & Roof Materials Including Thickness & Nature Of Supports)

Floor Level	% Aut. Spk. Sec	Fire Resistive & Masonry	Fire Res. in Hrs.	Non-Combustible	Combustible
Grade		<u>Earth 11m²</u>			<u>Wood 160m²</u>
<u>2nd</u>					<u>Wood 160m²</u>
Roof					<u>Wood 171 m²</u>

COMBUSTIBLE FLR. on Lowest BASEMENT Level: Yes ; No . If Yes, Describe & Give Percentage - _____

SECONDARY CONSTRUCTION - (SECTION III)

- HEIGHT: (Nbr.) 24 Storeys High; Basement: Yes ; No . (Nbr.) 1 Combustible Storeys Without Ground Level Access.
- VERTICAL OPENINGS: Elevators ; Stairs ; Other (describe) _____
(Describe Construction & Type of Enclosure (s) & Door (s) Fully)

Elev., S' way or Other	Nbr.	From:	To:	ENCLOSURE(S)	DOOR(S)
	<u>2</u>	<u>1st</u>	<u>bas</u>	<u>Lath & plaster</u>	<u>Wood</u>
	<u>1</u>	<u>1st</u>	<u>2nd</u>	<u>Lath & plaster</u>	<u>Wood</u>

- AREA: Basement: ; 1st. Floor: ; 2nd. Floor: ; 3rd (& Other): ; Separation Walls (describe) _____
Total Area 491 m²
EFFECTIVE AREA: 491 m²

- ROOF SURFACE: Non-Combustible (describe) _____; Combustible (describe) _____
Patent . FALSE ROOF over Masonry or Fire Resistive Roof () (describe) _____
- COMBUSTIBLE CONCEALED SPACES: Combustible Space In Roof , &/or Ceiling . If In Roof, Is This An Attic , Cut Off , Shut Off , With Access Limited By Trap(s)/Hatchway(s) . In Proportion To Total Roof/Ceiling Area COMBUSTIBLE CONCEALED SPACE Comprises _____% In ROOF &/or _____% In CEILING. Describe _____

- continued -

- COMBUSTIBLE INTERIOR CONSTRUCTION: Floor Surfacing (describe & give % of total floor area affected) _____
 Partitions/Walls (describe & give % of total interior wall area) _____
 Mezzanines/Decks (describe & give % of total area of floors & roof) _____

- INTERIOR FINISH or INSULATION: (Specify Where SPECIAL DAMAGE Materials Are Used)

Specify FLOOR	bas	1ST	2ND			
Walls:	SIN	NIS LIP	LIP			
Ceiling:	AIN	LIP	LIP			
Interior Partitions						
Smoke Developed						
Flame Spread						

Ordinary Damage Materials Attached To Fire Resistive or Non-Combustible Walls and/or Ceiling

- COMB. EXTERIOR ATTACHMENTS OR FINISH: Attachments Comprise Of (describe & give chargeable %) _____
 Finish Comprises Of (describe & give chargeable %) _____
 Smoke Developed - 200 or Less ; Over 200 ; Flame Spread Rating _____
 None Of The Above . Are Attachments/Finish Attached/Applied To Fire Resistive or Non-Comb., Walls or Roof? Yes ; No .

- BUILDING CONDITION: Moderate ; Major ; Extreme Deficiencies . Describe Sub-Standard Structural Conditions
Walls cracked bulged out of line - roof of canopy ready to collapse
COMMON HAZARDS - (SECTION VII, Items 720-724) metal siding falling off.

- HEATING: Building Heated? Yes ; No . Borrowed Heat . Describe Heating System Including Controls & Fuel Used:
electric permanently installed in 267 appears to be H.A. fuel oil in 263-265
 Describe Chimney(s) & Deficiencies if Any: _____

- ELECTRICAL: FUSES: Type "S" ; Type "C" & Rejector System ; Circuit Breakers ; ORDINARY ; Used Exclusively .
 Aluminum Wiring ; Rigid Conduit ; Other (describe) Non metallic sheath. Open .
 Electrical Equipment Defects: None ; Minor ; Moderate ; Major ; Serious . Describe Condition: _____

- HOUSEKEEPING: See General Underwriting Comments Section (Page 3)
MUNICIPAL PROTECTION - (SECTION IX)

- FIRE DEPARTMENT: Risk Within 2.5 km Of Nearest Fire Hall? Yes ; No . If No - State Distance To Fire Hall: _____ km.

- HYDRANTS: Two Hydrants Within 155m of Risk? Yes ; No . And All Parts Of Building Within 155m Of At Least One Hydrant? Yes ; No . MAINS - 150mm ; 200mm ; 300mm . Other (describe) _____
 Circulating ; and/or Dead End Mains. Describe Deficiency (if any): _____

- ACCESSIBILITY: Risk Accessible At Least On One Side By Street 15m In Width? Yes ; No . If No - Describe _____

- CONGESTED AREA: Congested/Conflagration Hazard Prevails? Yes ; No . If Yes, Describe Under General Underwriting Comments.

- PRIVATE PROTECTION: Is There Exclusive Private Protection . Or Supplement To Municipal Protection (). Describe _____

INTERNAL PROTECTION - (SECTION XI)

- MANUAL FIRE FIGHTING EQUIPMENT: Standard ; Non-Standard . (See Occupancy Section, page 3).

- WATCHMAN SERVICE: Standard . Including Proprietary Supervision . Including Central Station Supervisory Ser. . Describe: _____

- AUTOMATIC FIRE DETECTION SYSTEM: Full Protection ; Partial Protection (i.e. Minimum Requirements) ; Describe (& Attach Form No. 2184-6/80, for Automatic Fire Alarm Detection Systems, After Completion) _____

- PARTIAL AUTOMATIC SPRINKLER SYSTEMS: Acceptable Waterflow Alarm To Approved CENTRAL STATION . No Such Alarm . Total area Protected by Automatic Sprinklers Comprises _____ m².

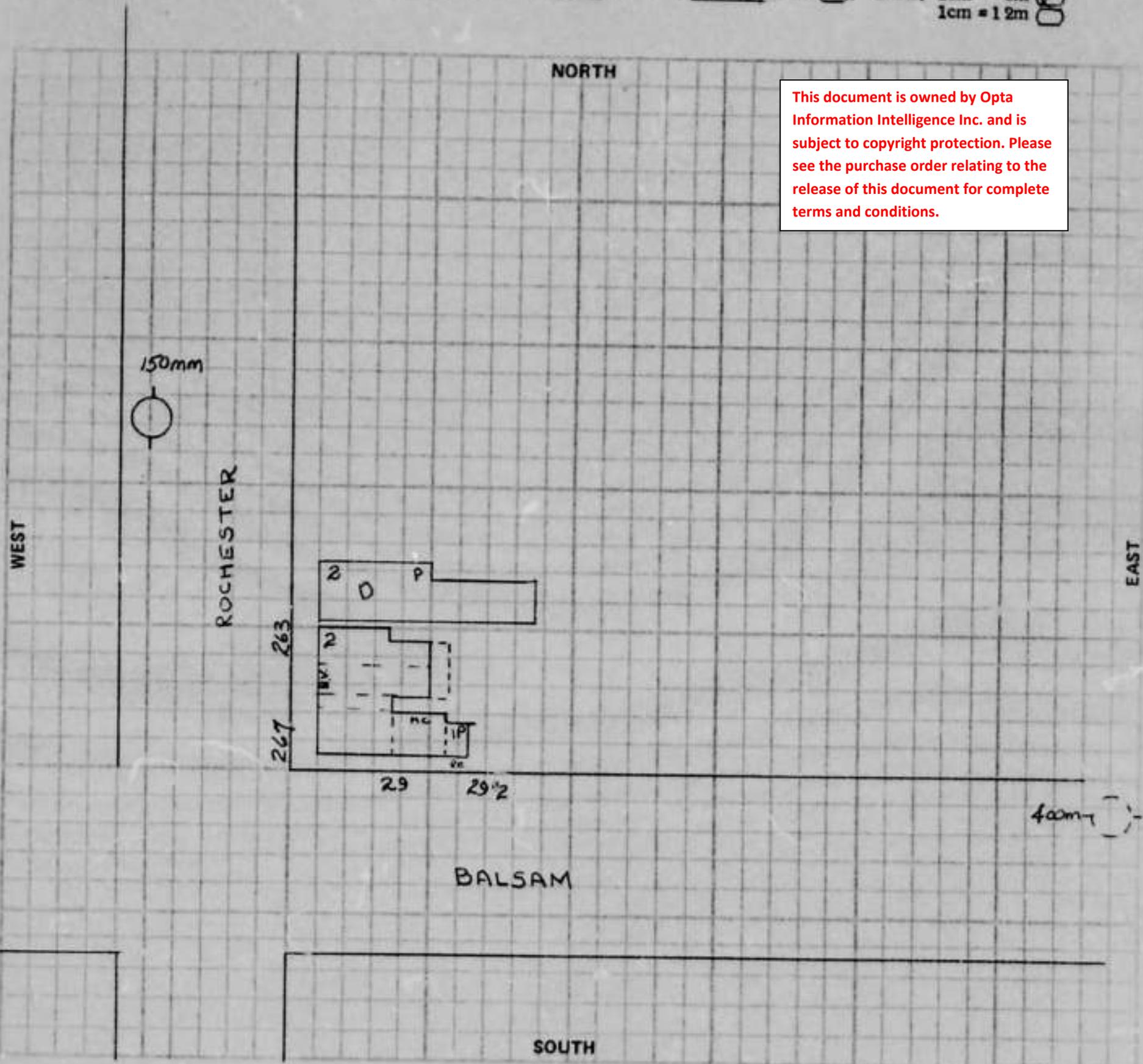
- OTHER LIMITED AUTOMATIC FIRE PROTECTION SYSTEMS: Area Protected by: HALON ; CO₂ ; HIGH EXPANSION FOAM ; Other (describe) _____, Comprises _____ m².
 (Other Than A. S.)



Siteplan Report - 1983 263-267 Rochester Street Ottawa ON K1R7M9



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EXPOSURE - (SECTION VIII)

WALL OF BUILDING BEING RATED					BETWEEN BLDGS.		FACING WALL OF EXPOSURE						
Direction	Blnk.	Comb. & Non-Comb	Msnry. Up	Msnry. Sp	Distance	Party Wall	Blnk.	Msnry. Sp	Msnry. Up	Non-Comb.	Comb.	Occ'y Haz.	Length / Height
NORTH		✓			.4m						✓	HAB.	
SOUTH													
EAST													
WEST													

Requested by: U.S. FIRE INS. CO.

Sig. Of Insp. A. K. Hunt
Dt. 19 APRIL 1983 / 21 April
(Inspected) (Written Up)

Report Date: APRIL 13
(Dt. Request Recd. in IAO Service Office)

Revised By: _____
Dt. _____

APPENDIX 5 PREVIOUS REVIEWED REPORTS





Geotechnical
Engineering

Environmental
Engineering

Hydrogeology

Geological
Engineering

Materials Testing

Building Science

Phase II - Environmental Site Assessment
247-267 Rochester Street and 27 Balsam Street
Ottawa, Ontario

Prepared For

Fanto Group Inc.

March 17, 2011

Report: PE1616-LET.01

Paterson Group Inc.
Consulting Engineers
28 Concourse Gate - Unit 1
Ottawa (Nepean), Ontario
Canada K2E 7T7

Tel: (613) 226-7381
Fax: (613) 226-6344
www.patersongroup.ca

March 17, 2011
File: PE1616-LET.01

28 Concourse Gate, Unit 1
Ottawa, Ontario
Canada, K2E 7T7
Tel: (613) 226-7381
Fax: (613) 226-6344

Fanto Group Inc.
2212 Gladwin Crescent, Unit E10
Ottawa, Ontario
K1B 5N1

Attention: **Mr. Teodoro Oliviero**

Subject: **Phase II - Environmental Site Assessment
247-267 Rochester Street and 27 Balsam Street
Ottawa, Ontario**

Geotechnical Engineering
Environmental Engineering
Hydrogeology
Geological Engineering
Materials Testing
Building Science

www.patersongroup.ca

Dear Mr. Oliviero,

Further to your request and authorization, Paterson Group (Paterson) has conducted a Phase II Environmental Site Assessment (ESA) at the aforementioned property. This letter contains our findings and conclusions.

INTRODUCTION

The subject properties, addressed 245, 247, 249, 261, 263-267 Rochester Street and 27 Balsam Street, are located northeast of the Rochester Street and Balsam Street intersection, in the City of Ottawa, Ontario. The subject site is currently occupied by six (6) one or two storey residential/commercial buildings. The site is situated in a primarily residential neighbourhood. The purpose of the Phase II - ESA was to investigate potential VOC contamination as a result of a former dry cleaners located at 267 Rochester Street from 1964 until 1984. The unit addressed 267 Rochester Street is situated at the intersection of Rochester Street and Balsam Street and forms part of a larger building/property also including 263 and 265 Rochester Street.

FIELD WORK

The field work for the Phase II ESA was conducted in four stages, on September 14, October 13 and October 28, 2009 and on October 19 and 22, 2010. A total of ten (10) boreholes, each of which was instrumented with a groundwater monitoring well, were advanced using truck mounted or portable drill rigs under full time supervision by personnel from Paterson's environmental division. The borehole locations are illustrated on Drawing No. PE1616-5, Test Hole Location Plan, appended to this letter.

The depth of the boreholes ranged from 4.8 m to 10.6 m below the existing grade. A total of eight (8) soil samples were recovered from the boreholes. Upon recovery, all samples were immediately sealed in appropriate containers to facilitate the preliminary screening procedure as described below. Rock core samples were obtained from each of the boreholes. Upon recovery all samples were immediately sealed in appropriate containers. The depths at which the auger, split spoon, and rock core samples were obtained from the boreholes are shown as “**AU**”, “**SS**” and “**RC**”, on the Soil Profile and Test Data sheet appended to this letter.

In general, the soil profile consisted of asphaltic concrete over fill material followed by grey limestone bedrock. No visual or olfactory observations were made during the field work that suggested impact to the encountered soil from volatile organic compound contaminants. The results of the vapour survey supported our field observations.

All samples recovered as part of this investigation will be stored for a minimum of one month after the issuance of this report. All samples will then be discarded unless this firm is otherwise directed.

Soil and groundwater sampling protocols were followed using the MOE document entitled “*Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario*”, dated May 1996.

Groundwater

The groundwater levels were measured in the monitoring wells in BH3 through BH7 on November 2, 2009 and were found to be present at depths ranging from 1.5 and 2.8 m below the existing grade, with the exception of BH6, which was cored 10.6 m into the bedrock, and had a groundwater level approximately 9.0 m below surface grade. Groundwater levels were measured in BH9 and BH10 on November 1, 2010 and were found to be present at depths ranging from 3.3 m to 4.9 m below surface grade. The groundwater levels in monitoring wells BH1, BH2 and BH8 were collected and appear to be somewhat consistent with surrounding monitoring wells, however, these monitoring wells are located within existing buildings and no reference survey elevation data was available. It should be noted that the groundwater levels will fluctuate seasonally.

Soil Sample Headspace Analysis

An RKI Eagle or Photoionization detector (PID), was used to measure the combustible vapour concentrations in the headspace of the soil samples recovered from the boreholes. The technical protocol was obtained from Appendix C of the MOE document titled “*Interim Guidelines for the Remediation of Petroleum Contamination at Operating Retail and Private Fuel Outlets in Ontario*”, dated March 1992.

Soil samples recovered at the time of sampling were placed immediately into airtight plastic bags with nominal headspace. An RKI Eagle gas detector or PID was used to measure soil vapours. To measure the soil vapours, the analyser probe is inserted into the nominal headspace above the soil sample. The sample is agitated/manipulated gently as the measurement is taken. The peak reading registered within the first 15 seconds is recorded as the vapour measurement. The parts per million (PPM) scale is used to measure lower concentrations of combustible vapours.

The RKI Eagle vapour readings were found to range from 45 to 60 PPM. The PID vapour readings were found to range from 3.1 to 4.8 PPM. These readings are considered to be representative of background conditions. The results of the vapour survey are presented on the Soil Profile and Test Data Sheets appended to this letter.

ANALYTICAL TESTING

Remediation Criteria

The remediation standards for the subject property were obtained from Table 1 of the document entitled "Soil, Groundwater and Sediment Standards for Use Under Part XV.I of the Environmental Protection Act.", prepared by the Ontario Ministry of the Environment (MOE), March 9, 2004. The MOE Table 1 standards are based on the following considerations.

- Coarse grained soil conditions.
- Shallow surface soil and groundwater conditions.
- Non-potable groundwater situation.
- Residential land use.

The site could be reclassified to incorporate the less stringent MOE Table 3 standards. To do this soil extract testing would need to be performed and the analytical results compared to MOE Table 6: Soil Extract and Groundwater Standards to Determine Whether a Property is a "Shallow Soil Property" or, can be reclassified. If the soil extract results are found to be below the MOE Table 6 Standards, the generic (Table 3) standards can be applied to the property.

In July of 2009, the MOE drafted amendments to the 2004 Standards which are scheduled to be implemented on July 1, 2011. In the case of this site, the MOE has granted an extension to use the current (2004) MOE Standards. The current standards, which are generally less stringent, are used for comparison purposes.

Parcel Laboratories of Ottawa, performed laboratory analysis of the soil and groundwater samples submitted for analytical testing. Parcel is a member of the Standards Council of Canada/Canadian Association for Environmental Analytical Laboratories (SCC/CAEAL) and is accredited and certified by SCC/CAEAL for specific tests registered with the Association.

One soil sample was submitted for analytical testing of volatile organic compounds (VOCs). The results of the analytical soil testing and the selected MOE standards are presented in Table 1. A copy of the laboratory results are appended to this letter.

Table 1 Analytical Test Results - Soil Volatile Organic Compounds (VOCs)			
Parameter	MDL (µg/g)	Soil Samples (µg/g) October 13, 2009	Table 1 Standards All Other Types of Property Use (µg/g)
		BH 3-SS2	
Benzene	0.002	nd	0.002
Bromodichloromethane	0.002	nd	N/V
Bromoform	0.002	nd	0.002
Bromomethane	0.003	nd	0.003
Carbon Tetrachloride	0.002	nd	0.002
Chlorobenzene	0.002	nd	0.002
Chloroform	0.003	nd	0.006
Dibromochloromethane	0.002	nd	0.003
1,2-Dichlorobenzene	0.002	nd	0.002
1,3-Dichlorobenzene	0.002	nd	0.002
1,4-Dichlorobenzene	0.002	nd	0.002
1,1-Dichloroethane	0.002	nd	0.002
1,2-Dichloroethane	0.002	nd	0.002
1,1-Dichloroethylene	0.002	nd	0.002
cis-1,2-Dichloroethylene	0.002	nd	N/V
trans-1,2-Dichloroethylene	0.003	nd	0.003
1,2-Dichloropropane	0.002	nd	0.002
1,3-Dichloropropylene	0.002	nd	0.003
Ethylbenzene	0.002	nd	0.002
Methylene Chloride	0.003	nd	0.003
Styrene	0.002	nd	0.002

Table 1 Analytical Test Results - Soil Volatile Organic Compounds (VOCs)			
Parameter	MDL (µg/g)	Soil Samples (µg/g) October 13, 2009	Table 1 Standards All Other Types of Property Use (µg/g)
		BH 3-SS2	
1,1,1,2-Tetrachloroethane	0.003	nd	N/V
1,1,2,2-Tetrachlorethane	0.003	nd	0.004
Tetrachloroethylene	0.002	nd	0.002
Toluene	0.002	nd	0.002
1,1,1-Trichloroethane	0.002	nd	0.009
1,1,2-Trichloroethane	0.002	nd	0.002
Trichloroethylene	0.003	nd	0.004
Trichlorofluoromethane	0.005	nd	N/V
Vinyl Chloride	0.002	nd	0.003
Xylenes	0.002	nd	0.002
Notes: <input type="checkbox"/> MDL - Method Detection Limit <input type="checkbox"/> N/V - No Value Provided by the MOE <input type="checkbox"/> nd - not detected above the MDL			

The analytical test results did not identify any VOC concentrations in the analysed soil samples. The analytical test results are in compliance with the MOE Standards.

Groundwater

A total of fourteen (14) groundwater samples obtained from the 10 monitoring wells installed on site were submitted for analytical testing of volatile organic compounds (VOCs). The results of the testing and the selected MOE standards are presented in Table 2. A copy of the laboratory results are appended to this letter. Groundwater sampling was conducted over the interim of September 2009 to November 2010.

Table 2 Analytical Test Results - Groundwater Volatile Organic Compounds (VOCs)							
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)					Table 1 Standards (µg/L)
		BH1-GW1	BH2-GW1	BH3-GW1	BH4-GW1	BH5-GW1	
		Sept. 21, 2009		Oct. 20, 2009			
Benzene	0.5	nd	nd	nd	nd	nd	5
Bromodichloromethane	0.4	nd	nd	nd	nd	nd	5
Bromoform	0.5	nd	nd	nd	nd	nd	5
Bromomethane	0.7	nd	nd	nd	nd	nd	0.9
Carbon Tetrachloride	0.5	nd	nd	nd	nd	nd	0.5
Chlorobenzene	0.4	nd	nd	nd	nd	nd	15
Chloroform	0.5	<u>5.6</u>	<u>4.5</u>	<u>11.8</u>	<u>10.3</u>	<u>12.7</u>	0.5
Dibromochloromethane	0.5	nd	nd	nd	nd	nd	0.5
1,2-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	2.5
1,3-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	2.5
1,4-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	1
1,1-Dichloroethane	0.5	3.4	nd	1.7	nd	nd	70
1,2-Dichloroethane	0.5	nd	nd	nd	nd	nd	5
1,1-Dichloroethylene	0.5	<u>9.3</u>	nd	<u>3.8</u>	nd	nd	0.66
cis-1,2-Dichloroethylene	0.4	<u>236</u>	nd	4.7	nd	nd	70
trans-1,2-Dichloroethylene	1	2	nd	nd	nd	nd	100
1,2-Dichloropropane	0.5	nd	nd	nd	nd	nd	0.7
1,3-Dichloropropene	0.4	nd	nd	nd	nd	nd	1.4
Ethylbenzene	0.5	nd	nd	nd	nd	nd	2.4
Methylene Chloride	4	nd	nd	nd	nd	nd	50
Styrene	0.4	nd	nd	nd	nd	nd	4
1,1,1,2-Tetrachloroethane	0.5	nd	nd	nd	nd	nd	5
1,1,1,2,2-Tetrachlorethane	0.6	nd	nd	nd	nd	nd	1

Table 2 continued							
Analytical Test Results - Groundwater							
Volatile Organic Compounds (VOCs)							
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)					Table 1 Standards (µg/L)
		BH1-GW1	BH2-GW1	BH3-GW1	BH4-GW1	BH5-GW1	
		Sept. 21, 2009		Oct. 20, 2009			
Tetrachloroethylene	0.5	<u>33200</u>	nd	<u>48600</u>	nd	<u>39.1</u>	5
Toluene	0.5	nd	nd	nd	nd	nd	0.8
1,1,1-Trichloroethane	0.4	nd	nd	nd	nd	nd	10
1,1,2-Trichloroethane	0.6	nd	nd	nd	nd	nd	5
Trichloroethylene	0.4	<u>550</u>	nd	<u>163</u>	nd	0.8	20
Vinyl Chloride	0.4	<u>32.7</u>	nd	nd	nd	nd	0.5
Xylenes	1.0	nd	nd	nd	nd	nd	72

Notes:

- MDL - Method Detection Limit
- nd - not detected above the MDL
- Bold and Underlined** - Value exceeds selected MOE Table 1 Standard

Table 2 continued								
Analytical Test Results - Groundwater								
Volatile Organic Compounds (VOCs)								
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)						Table 1 Standards (µg/L)
		BH6-GW1	BH7-GW1	BH4-GW2	BH5-GW2	BH6-GW2	BH7-GW2	
		Nov. 2, 2009			Oct. 7, 2010			
Benzene	0.5	nd	nd	nd	nd	nd	nd	5
Bromodichloromethane	0.4	nd	0.6	nd	nd	nd	nd	5
Bromoform	0.5	nd	nd	nd	nd	nd	nd	5
Bromomethane	0.7	nd	nd	nd	nd	nd	nd	0.9
Carbon Tetrachloride	0.5	nd	nd	nd	nd	nd	nd	0.5
Chlorobenzene	0.4	nd	nd	nd	nd	nd	nd	15
Chloroform	0.5	0.5	5	nd	nd	nd	nd	0.5
Dibromochloromethane	0.5	nd	nd	nd	nd	nd	nd	0.5
1,2-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	nd	2.5
1,3-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	nd	2.5
1,4-Dichlorobenzene	0.4	nd	nd	nd	nd	nd	nd	1
1,1-Dichloroethane	0.5	nd	nd	nd	nd	nd	nd	70
1,2-Dichloroethane	0.5	nd	nd	nd	nd	nd	nd	5
1,1-Dichloroethylene	0.5	nd	nd	nd	0.8	nd	nd	0.66
cis-1,2-Dichloroethylene	0.4	nd	nd	nd	nd	nd	nd	70
trans-1,2-Dichloroethylene	1	nd	nd	nd	nd	nd	nd	100
1,2-Dichloropropane	0.5	nd	nd	nd	nd	nd	nd	0.7
1,3-Dichloropropene	0.4	nd	nd	nd	nd	nd	nd	1.4
Ethylbenzene	0.5	nd	nd	nd	nd	nd	nd	2.4
Methylene Chloride	4	nd	nd	nd	nd	nd	nd	50
Styrene	0.4	nd	nd	nd	nd	nd	nd	4
1,1,1,2-Tetrachloroethane	0.5	nd	nd	nd	nd	nd	nd	5
1,1,2,2-Tetrachlorethane	0.6	nd	nd	nd	nd	nd	nd	1

Table 2 continued Analytical Test Results - Groundwater Volatile Organic Compounds (VOCs)								
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)						Table 1 Standards (µg/L)
		BH6-GW1	BH7-GW1	BH4-GW2	BH5-GW2	BH6-GW2	BH7-GW2	
		Nov. 2, 2009			Oct. 7, 2010			
Tetrachloroethylene	0.5	0.9	nd	nd	nd	nd	nd	5
Toluene	0.5	<u>15.5</u>	nd	nd	nd	nd	nd	0.8
1,1,1-Trichloroethane	0.4	nd	nd	nd	nd	nd	nd	10
1,1,2-Trichloroethane	0.6	nd	nd	nd	nd	nd	nd	5
Trichloroethylene	0.4	0.4	1	nd	nd	nd	nd	20
Vinyl Chloride	0.4	nd	nd	nd	nd	nd	nd	0.5
Xylenes	1.0	nd	nd	nd	nd	nd	nd	72
Notes:								
<input type="checkbox"/> MDL - Method Detection Limit <input type="checkbox"/> nd - not detected above the MDL <input type="checkbox"/> <u></u> - Value exceeds selected MOE Table 1 Standard								

Table 2 continued					
Analytical Test Results - Groundwater					
Volatile Organic Compounds (VOCs)					
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)			Table 1 Standards (µg/L)
		BH8	BH9	BH10	
		Nov. 1, 2010			
Benzene	0.5	nd	nd	nd	5
Bromodichloromethane	0.4	nd	nd	nd	5
Bromoform	0.5	nd	nd	nd	5
Bromomethane	0.7	nd	nd	nd	0.9
Carbon Tetrachloride	0.5	nd	nd	nd	0.5
Chlorobenzene	0.4	nd	nd	nd	15
Chloroform	0.5	<u>5</u>	<u>3.2</u>	nd	0.5
Dibromochloromethane	0.5	nd	nd	nd	0.5
1,2-Dichlorobenzene	0.4	nd	nd	nd	2.5
1,3-Dichlorobenzene	0.4	nd	nd	nd	2.5
1,4-Dichlorobenzene	0.4	nd	nd	nd	1
1,1-Dichloroethane	0.5	nd	5.2	nd	70
1,2-Dichloroethane	0.5	nd	nd	nd	5
1,1-Dichloroethylene	0.5	<u>1.4</u>	<u>6.4</u>	nd	0.66
cis-1,2-Dichloroethylene	0.4	2.8	<u>89.6</u>	nd	70
trans-1,2-Dichloroethylene	1	nd	nd	nd	100
1,2-Dichloropropane	0.5	nd	nd	nd	0.7
1,3-Dichloropropene	0.4	nd	nd	nd	1.4
Ethylbenzene	0.5	nd	nd	nd	2.4
Methylene Chloride	4	nd	nd	nd	50
Styrene	0.4	nd	nd	nd	4
1,1,1,2-Tetrachloroethane	0.5	nd	nd	nd	5
1,1,2,2-Tetrachlorethane	0.6	nd	nd	nd	1

Table 2 continued					
Analytical Test Results - Groundwater					
Volatile Organic Compounds (VOCs)					
Parameter	MDL (µg/L)	Groundwater Samples (µg/L)			Table 1 Standards (µg/L)
		BH8	BH9	BH10	
		Nov. 1, 2010			
Tetrachloroethylene	0.5	<u>239</u>	<u>2340</u>	nd	5
Toluene	0.5	<u>4</u>	nd	nd	0.8
1,1,1-Trichloroethane	0.4	nd	nd	nd	10
1,1,2-Trichloroethane	0.6	nd	nd	nd	5
Trichloroethylene	0.4	<u>47.6</u>	<u>389</u>	nd	20
Vinyl Chloride	0.4	<u>0.6</u>	<u>4</u>	nd	0.5
Xylenes	1.0	nd	nd	nd	72

Notes:

- MDL - Method Detection Limit
- nd - not detected above the MDL
- Bold and Underlined** - Value exceeds selected MOE Table 1 Standard

The analytical test results identified the presence of a number of VOC parameters (excluding chloroform) in the groundwater samples from boreholes BH1, BH3, BH5, BH8 and BH9. The final (most recent) groundwater samples from BH1, BH3, BH8 and BH 9 have one or more VOC concentrations which exceed the selected MOE Table 1 standards. The VOC impacted groundwater appears to be relatively localized to the southwest area of the site. The contaminants of concern are tetrachloroethylene (PCE) and trichloroethylene (TCE) as well as degradation by-products, which were also detected at lesser concentrations in the groundwater samples from the area of impacted groundwater. The source of this contamination is suspected to be the former dry cleaning operation at 267 Rochester Street. The most recent analysed groundwater samples from BH2, BH4, BH5, BH6, BH7 and BH10 do not indicate the presence of any VOC concentrations in excess of the selected MOE Table 1 Standards, with the exception of Chloroform in BH2.

Chloroform was detected in most of the initial groundwater samples and is expected to be present as a result of the use of city water used as core water during the drilling program. The observed concentrations of chloroform were less than that which are typically found in municipal tap water. After re-sampling several monitoring wells no concentrations of chloroform were observed above the detection limit.

ASSESSMENT

A Phase II Environmental Site Assessment was conducted at the properties addressed 245, 247, 249, 261, 263-267 Rochester Street and 27 Balsam Street in the City of Ottawa, Ontario. The purpose of the investigation was to assess potential VOC contamination as a result of a former dry cleaners located at 267 Rochester Street .

The field program was conducted over the interim of September 2009 to November 2010 and consisted of placing ten (10) boreholes, instrumented with groundwater monitoring wells on the subject site. The majority of the test holes were placed on the south and southwest portions of the site.

Soil

The soil profile generally consisted of asphaltic concrete over fill material followed by grey limestone bedrock. No visual or olfactory observations were made during the field work that suggested impact to the encountered soil from volatile organic compound contaminants. In general the depth to bedrock was approximately 1.0 m. One sample of the fill material was submitted to Paracel Laboratories for volatile organic compound (VOC) analysis.

The analytical test results did not identify any VOC concentrations in the fill sample analysed. All of the VOC concentrations are hence in compliance with the MOE Table 1 standards.

Groundwater

A total of fourteen (14) groundwater samples obtained from the 10 monitoring wells installed on site were collected and submitted for analytical testing of volatile organic compounds (VOCs).

The analytical test results identified the presence of a number of VOC parameters (excluding chloroform) in the groundwater samples from boreholes BH1, BH3, BH5, BH8 and BH9. The final (most recent) groundwater samples from BH1, BH3, BH8 and BH 9 have one or more VOC concentrations which exceed the selected MOE Table 1 standards. The most recent analysed groundwater samples from BH2, BH4, BH5, BH6, BH7 and BH10 do not indicate the presence of any VOC concentrations in excess of the selected MOE Table 1 Standards, with the exception of Chloroform in BH2.

Chloroform was detected in most of the initial groundwater samples and is expected to be present as a result of the use of city water used as core water during the drilling program. The observed concentrations of chloroform were less than that which are typically found in municipal tap water. After re-sampling several monitoring wells no concentrations of chloroform were observed above the detection limit.

CONCLUSIONS

Based on the results of the Phase II - ESA, **it is our opinion that the site has been impacted by the on site by the former on site dry cleaning operation.**

The VOC impacted groundwater appears to be relatively localized to the southwest area of the site. The contaminants of concern are tetrachloroethylene (PCE) and trichloroethylene (TCE) as well as several degradation by-products, which were also detected at lesser concentrations in the groundwater samples from the area of impacted groundwater. The source of this contamination is suspected to be the former dry cleaning operation at 267 Rochester Street.

RECOMMENDATIONS

It is our recommendation that a remediation program be conducted on the subject property to clean up the VOC contaminated groundwater. It is our understanding that the subject site will be redeveloped in the near future. During redevelopment, the bedrock in the area of the identified groundwater contamination should be excavated to a depth exceeding that of the identified groundwater contamination. Impacted groundwater should then be pumped from the excavation and treated on site. The excavation will be backfilled to above the groundwater table with lean concrete to prevent recontamination of the groundwater. Remediation of the impacted groundwater should be conducted in conjunction with the initial phase of site development as a means of reducing costs.

STATEMENT OF LIMITATIONS

This Phase II - Environmental Site Assessment report has been prepared in general accordance with the agreed scope-of-work and the requirements of CSA Z769-00. The conclusions presented herein are based on information gathered from a limited sampling and testing program. The test results represent conditions at specific test locations at the time of the field program.

The client should be aware that any information pertaining to soils and all test hole logs are furnished as a matter of general information only and test hole descriptions or logs are not to be interpreted as descriptive of conditions at locations other than those described by the test holes themselves.

Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

Mr. Teodoro Oliviero
Page 14
File: PE1616-LET.01

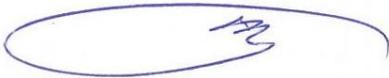
This report was prepared for the sole use of Fanto Group Inc. Permission and notification from Fanto Group Inc. and Paterson Group will be required to release this report to any other party.

Yours Truly,

Paterson Group Inc.



Luke Lopers, B.A.Sc.



Mark D'Arcy, P. Eng

Letter Distribution:

- Fanto Group Inc. (3 copies)
- Paterson Group Inc. (1 copy)

Enclosures:

- Soil Profile and Test Data Sheets
- Analytical Test Results
- Drawing No: PE1616-5 Test Hole Location Plan

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.
REMARKS #267 Rochester Street

FILE NO.
PE1616

HOLE NO.
BH 1

BORINGS BY Portable Drill

DATE 14 Sep 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			20	40	60	80	
GROUND SURFACE						0						
Concrete slab	0.04											
FILL: Crushed stone	0.10											
		RC	1	100	71	1						
		RC	2	94	79	2						
BEDROCK: Grey limestone												
		RC	3	100	88	3						
		RC	4	100	100	4						
End of Borehole	4.85											
(GWL @ 1.80m-Oct. 22/09)												

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.
REMARKS #245/247 Rochester Street

FILE NO.
PE1616

HOLE NO.
BH 2

BORINGS BY Portable Drill

DATE 14 Sep 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			20	40	60	80	
GROUND SURFACE						0						
BEDROCK: Grey limestone		RC	1	100	60	1						
		RC	2	100	94	2						
		RC	3	100	82	3						
		RC	4	100	86	4						
End of Borehole (GWL @ 1.67m-Oct. 22/09)	4.75											

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebek Ltd. survey plan.

REMARKS

FILE NO.
PE1616

HOLE NO.
BH 3

BORINGS BY CME 55 Power Auger

DATE 13 Oct 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Lower Explosive Limit %				
GROUND SURFACE							20	40	60	80		
25mm Asphaltic concrete over dark grey shaley silty sand FILL	0.60	AU	1			0	66.80					
Loose, grey SANDY SILT , some gravel	1.09	SS	2	46	4	1	65.80					
BEDROCK: Grey limestone		RC	1	90	47	2	64.80					
		RC	2	97	70	3	63.80					
		RC	3	100	57	4	62.80					
		RC	4	88	71	5	61.80					
End of Borehole (GWL @ 2.50m-Nov. 2/09)	6.10	RC	4	88	71	6	60.80					

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.

REMARKS

BORINGS BY CME 55 Power Auger

DATE 13 Oct 09

FILE NO. PE1616

HOLE NO. BH 4

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction	
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Lower Explosive Limit %					
GROUND SURFACE								20	40	60	80		
FILL: Brown silty sand and gravel		AU	1			0	67.04	▲					
	0.71	RC	1	75	50	1	66.04						
		RC	2	93	53	2	65.04						
		RC	3	98	70	3	64.04						
BEDROCK: Grey limestone		RC	4	100	77	4	63.04						
		RC	5	96	77	5	62.04						
	6.81					6	61.04						
End of Borehole (GWL @ 1.50m-Nov. 2/09)													

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.

REMARKS

FILE NO.
PE1616

HOLE NO.
BH 5

BORINGS BY CME 55 Power Auger

DATE 13 Oct 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction	
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Lower Explosive Limit %					
GROUND SURFACE								20	40	60	80		
25mm Asphaltic concrete over brown silty sand and gravel FILL	0.60	AU	1			0	66.84						
BEDROCK: Grey limestone		RC	1	8	0	1	65.84						
		RC	2	97	37	2	64.84						
		RC	3	100	85	3	63.84						
		RC	4	100	83	5	61.84						
		RC	5	100	72	6	60.84						
End of Borehole (GWL @ 2.81m-Nov. 2/09)	6.71												

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebek Ltd. survey plan.

REMARKS

FILE NO.
PE1616

HOLE NO.
BH 6

BORINGS BY CME 75 Power Auger

DATE 28 Oct 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Lower Explosive Limit %				
GROUND SURFACE								20	40	60	80	
Asphaltic concrete	0.10	AU	1			0	66.73					
FILL: Brown shaley silty sand with construction debris	1.17	SS	2		50+	1	65.73					
BEDROCK: Grey limestone		RC	1	100		2	64.73					
		RC	2	100		3	63.73					
		RC	3	100		4	62.73					
		RC	4	100		5	61.73					
		RC	5	98		6	60.73					
		RC	6	100		7	59.73					
		RC	7	94		8	58.73					
						9	57.73					
						10	56.73					
End of Borehole (GWL @ 9.00m-Nov. 2/09)	10.62											

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebek Ltd. survey plan.

REMARKS

FILE NO.
PE1616

HOLE NO.
BH 7

BORINGS BY CME 75 Power Auger

DATE 28 Oct 09

SOIL DESCRIPTION	STRATA PLOT	SAMPLE				DEPTH (m)	ELEV. (m)	Pen. Resist. Blows/0.3m ● 50 mm Dia. Cone				Monitoring Well Construction
		TYPE	NUMBER	% RECOVERY	N VALUE or RQD			○ Lower Explosive Limit %				
GROUND SURFACE								20	40	60	80	
Asphaltic concrete	0.25	AU	1			0	66.72					
FILL: Silty sand and gravel	1.62	SS	2		8	1	65.72					
		SS	3		50+							
BEDROCK: Grey limestone		RC	1	95		2	64.72					
		RC	2	100		3	63.72					
		RC	3	100		4	62.72					
		RC	4	100		5	61.72					
End of Borehole (GWL @ 2.73m-Nov. 2/09)	6.12	RC	4	100		6	60.72					

100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

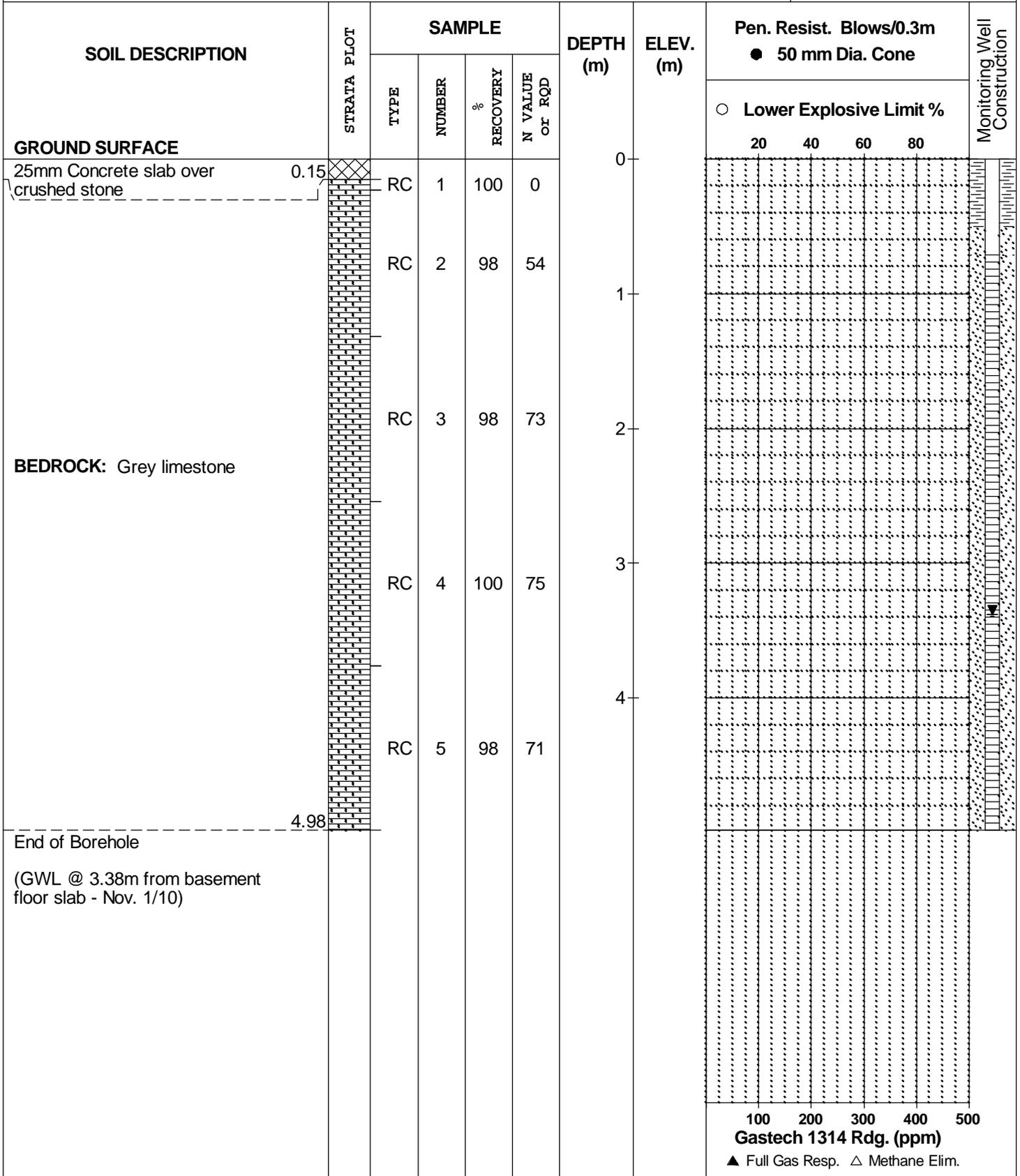
DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.
REMARKS #261 Rochester Street

FILE NO. PE1616

HOLE NO. BH 8

BORINGS BY Portable Drill

DATE 19 Oct 10



28 Concourse Gate, Unit 1, Ottawa, ON K2E 7T7

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.

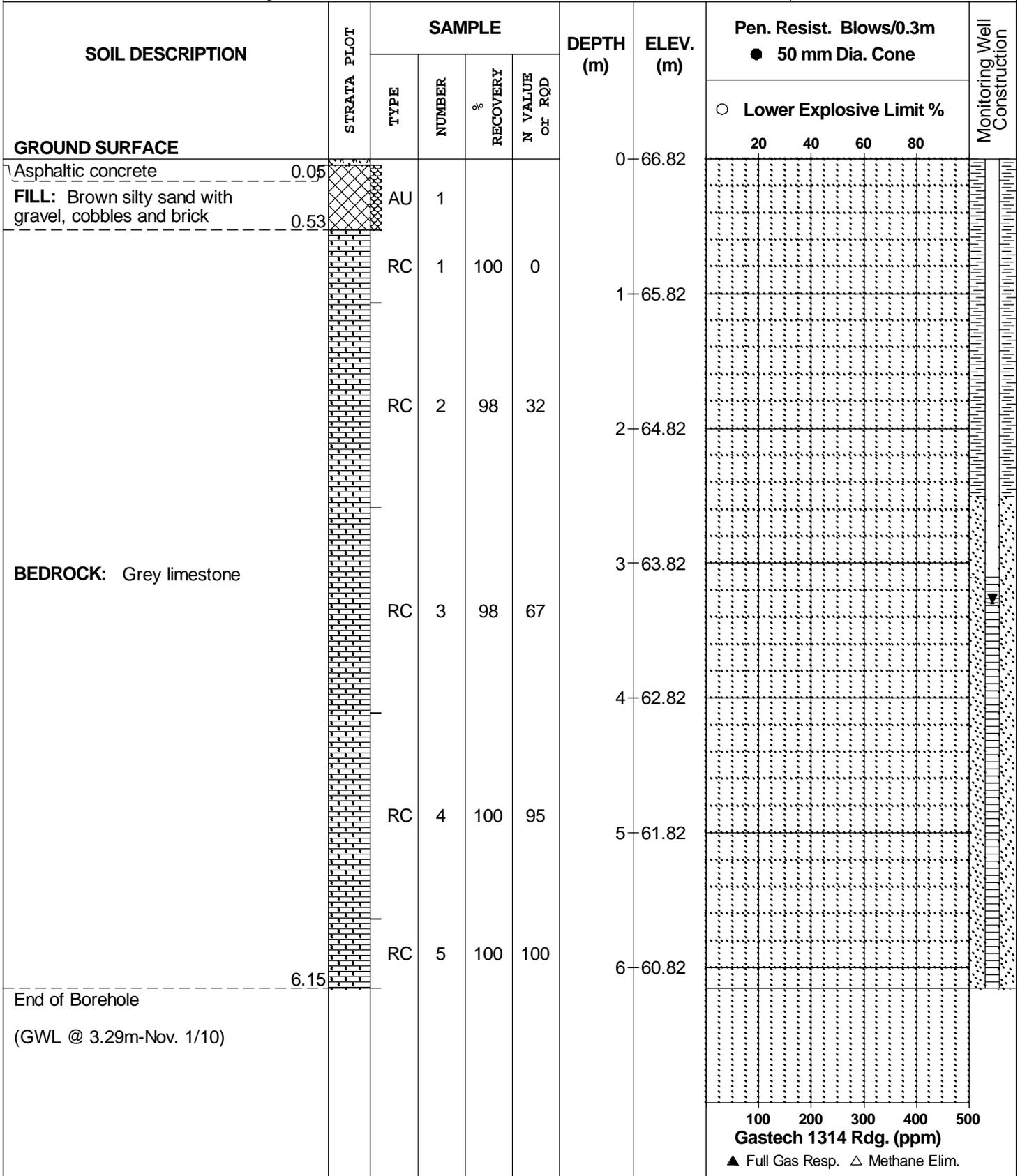
FILE NO. PE1616

REMARKS

HOLE NO. BH 9

BORINGS BY CME 75 Power Auger

DATE 22 Oct 10



100 200 300 400 500
Gastech 1314 Rdg. (ppm)
▲ Full Gas Resp. △ Methane Elim.

SOIL PROFILE AND TEST DATA

Phase I-II Environmental Site Assessment
245-267 Rochester Street & 27 Balsam Street
Ottawa, Ontario

DATUM TBM - Cross cut in sidewalk, geodetic elevation = 66.72m taken from Annis, O'Sullivan, Vollebakk Ltd. survey plan.

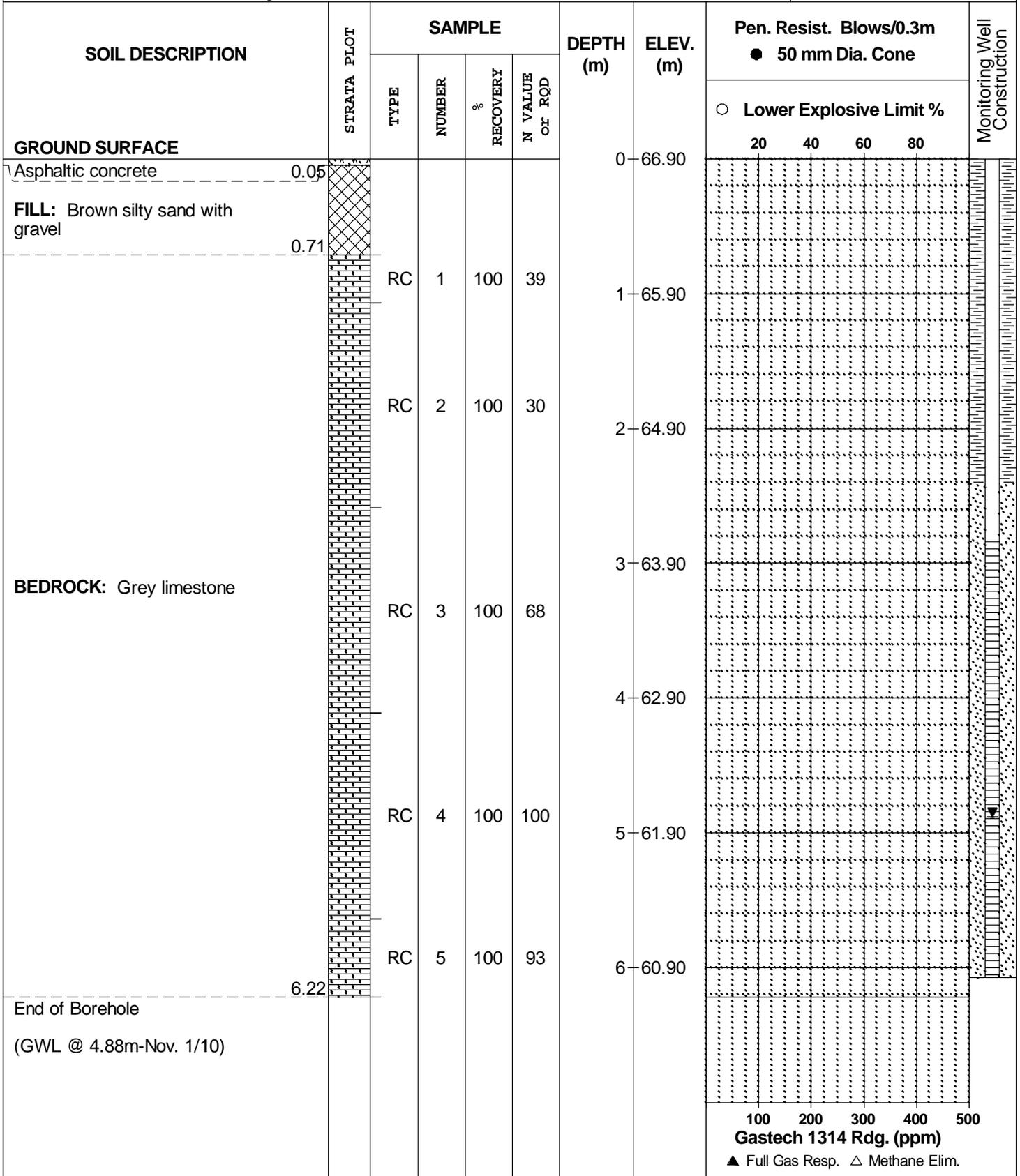
REMARKS

FILE NO.
PE1616

HOLE NO.
BH10

BORINGS BY CME 75 Power Auger

DATE 22 Oct 10



Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1
Nepean, ON K2E 7T7

Attn: Mark D'Arcy

Client PO: 8572

Project: PE1616

Custody: 66449

Phone: (613) 226-7381

Fax: (613) 226-6344

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

Order #: 0942071

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
0942071-01	BH3-SS2

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Any use of these 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 circumstances be liable to you in connection with this work

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
Solids, %	Gravimetric, calculation	14-Oct-09	14-Oct-09
VOCs	EPA 8260 - P&T GC-MS	15-Oct-09	17-Oct-09

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Client ID:	BH3-SS2	-	-	-
Sample Date:	13-Oct-09	-	-	-
Sample ID:	0942071-01	-	-	-
MDL/Units	Soil	-	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	86.4	-	-	-
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Volatiles

Benzene	0.002 ug/g dry	<0.002	-	-	-
Bromodichloromethane	0.002 ug/g dry	<0.002	-	-	-
Bromoform	0.002 ug/g dry	<0.002	-	-	-
Bromomethane	0.003 ug/g dry	<0.003	-	-	-
Carbon Tetrachloride	0.002 ug/g dry	<0.002	-	-	-
Chlorobenzene	0.002 ug/g dry	<0.002	-	-	-
Chloroethane	0.005 ug/g dry	<0.005	-	-	-
Chloroform	0.003 ug/g dry	<0.003	-	-	-
Chloromethane	0.020 ug/g dry	<0.020	-	-	-
Dibromochloromethane	0.002 ug/g dry	<0.002	-	-	-
1,2-Dibromoethane	0.002 ug/g dry	<0.002	-	-	-
1,2-Dichlorobenzene	0.002 ug/g dry	<0.002	-	-	-
1,3-Dichlorobenzene	0.002 ug/g dry	<0.002	-	-	-
1,4-Dichlorobenzene	0.002 ug/g dry	<0.002	-	-	-
1,1-Dichloroethane	0.002 ug/g dry	<0.002	-	-	-
1,2-Dichloroethane	0.002 ug/g dry	<0.002	-	-	-
1,1-Dichloroethylene	0.002 ug/g dry	<0.002	-	-	-
cis-1,2-Dichloroethylene	0.002 ug/g dry	<0.002	-	-	-
trans-1,2-Dichloroethylene	0.003 ug/g dry	<0.003	-	-	-
1,2-Dichloropropane	0.002 ug/g dry	<0.002	-	-	-
cis-1,3-Dichloropropylene	0.002 ug/g dry	<0.002	-	-	-
trans-1,3-Dichloropropylene	0.002 ug/g dry	<0.002	-	-	-
Ethylbenzene	0.002 ug/g dry	<0.002	-	-	-
Methylene Chloride	0.003 ug/g dry	<0.003	-	-	-
Styrene	0.002 ug/g dry	<0.002	-	-	-
1,1,1,2-Tetrachloroethane	0.003 ug/g dry	<0.003	-	-	-
1,1,2,2-Tetrachloroethane	0.003 ug/g dry	<0.003	-	-	-
Tetrachloroethylene	0.002 ug/g dry	<0.002	-	-	-
Toluene	0.002 ug/g dry	<0.002	-	-	-

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

	MDL/Units	Client ID: Sample Date: Sample ID:			
		BH3-SS2	-	-	-
		13-Oct-09	-	-	-
		0942071-01	-	-	-
		Soil	-	-	-
1,1,1-Trichloroethane	0.002 ug/g dry	<0.002	-	-	-
1,1,2-Trichloroethane	0.002 ug/g dry	<0.002	-	-	-
Trichloroethylene	0.003 ug/g dry	<0.003	-	-	-
Trichlorofluoromethane	0.005 ug/g dry	<0.005	-	-	-
1,3,5-Trimethylbenzene	0.003 ug/g dry	<0.003	-	-	-
Vinyl chloride	0.002 ug/g dry	<0.002	-	-	-
m,p-Xylenes	0.002 ug/g dry	<0.002	-	-	-
o-Xylene	0.002 ug/g dry	<0.002	-	-	-
4-Bromofluorobenzene	Surrogate	109%	-	-	-
Dibromofluoromethane	Surrogate	117%	-	-	-
Toluene-d8	Surrogate	116%	-	-	-

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.002	ug/g						
Bromodichloromethane	ND	0.002	ug/g						
Bromoform	ND	0.002	ug/g						
Bromomethane	ND	0.003	ug/g						
Carbon Tetrachloride	ND	0.002	ug/g						
Chlorobenzene	ND	0.002	ug/g						
Chloroethane	ND	0.005	ug/g						
Chloroform	ND	0.003	ug/g						
Chloromethane	ND	0.020	ug/g						
Dibromochloromethane	ND	0.002	ug/g						
1,2-Dibromoethane	ND	0.002	ug/g						
1,2-Dichlorobenzene	ND	0.002	ug/g						
1,3-Dichlorobenzene	ND	0.002	ug/g						
1,4-Dichlorobenzene	ND	0.002	ug/g						
1,1-Dichloroethane	ND	0.002	ug/g						
1,2-Dichloroethane	ND	0.002	ug/g						
1,1-Dichloroethylene	ND	0.002	ug/g						
cis-1,2-Dichloroethylene	ND	0.002	ug/g						
trans-1,2-Dichloroethylene	ND	0.003	ug/g						
1,2-Dichloropropane	ND	0.002	ug/g						
cis-1,3-Dichloropropylene	ND	0.002	ug/g						
trans-1,3-Dichloropropylene	ND	0.002	ug/g						
Ethylbenzene	ND	0.002	ug/g						
Methylene Chloride	ND	0.003	ug/g						
Styrene	ND	0.002	ug/g						
1,1,1,2-Tetrachloroethane	ND	0.003	ug/g						
1,1,2,2-Tetrachloroethane	ND	0.003	ug/g						
Tetrachloroethylene	ND	0.002	ug/g						
Toluene	ND	0.002	ug/g						
1,1,1-Trichloroethane	ND	0.002	ug/g						
1,1,2-Trichloroethane	ND	0.002	ug/g						
Trichloroethylene	ND	0.003	ug/g						
Trichlorofluoromethane	ND	0.005	ug/g						
1,3,5-Trimethylbenzene	ND	0.003	ug/g						
Vinyl chloride	ND	0.002	ug/g						
m,p-Xylenes	ND	0.002	ug/g						
o-Xylene	ND	0.002	ug/g						
Surrogate: 4-Bromofluorobenzene	0.152		ug/g		112	83-134			
Surrogate: Dibromofluoromethane	0.166		ug/g		122	78-124			
Surrogate: Toluene-d8	0.161		ug/g		118	76-118			

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Physical Characteristics									
% Solids	83.3	0.1	% by Wt.	83.4			0.1	25	
Volatiles									
Benzene	ND	0.002	ug/g dry	ND				50	
Bromodichloromethane	ND	0.002	ug/g dry	ND				50	
Bromoform	ND	0.002	ug/g dry	ND				50	
Bromomethane	ND	0.003	ug/g dry	ND				50	
Carbon Tetrachloride	ND	0.002	ug/g dry	ND				50	
Chlorobenzene	ND	0.002	ug/g dry	ND				50	
Chloroethane	ND	0.005	ug/g dry	ND				50	
Chloroform	ND	0.003	ug/g dry	ND				32	
Chloromethane	ND	0.020	ug/g dry	ND				50	
Dibromochloromethane	ND	0.002	ug/g dry	ND				50	
1,2-Dibromoethane	ND	0.002	ug/g dry	ND				50	
1,2-Dichlorobenzene	ND	0.002	ug/g dry	ND				50	
1,3-Dichlorobenzene	ND	0.002	ug/g dry	ND				50	
1,4-Dichlorobenzene	ND	0.002	ug/g dry	ND				50	
1,1-Dichloroethane	ND	0.002	ug/g dry	ND				27	
1,2-Dichloroethane	ND	0.002	ug/g dry	ND				50	
1,1-Dichloroethylene	ND	0.002	ug/g dry	ND				50	
cis-1,2-Dichloroethylene	ND	0.002	ug/g dry	ND				33	
trans-1,2-Dichloroethylene	ND	0.003	ug/g dry	ND				50	
1,2-Dichloropropane	ND	0.002	ug/g dry	ND				50	
cis-1,3-Dichloropropylene	ND	0.002	ug/g dry	ND				50	
trans-1,3-Dichloropropylene	ND	0.002	ug/g dry	ND				50	
Ethylbenzene	ND	0.002	ug/g dry	ND				34	
Methylene Chloride	ND	0.003	ug/g dry	ND				50	
Styrene	ND	0.002	ug/g dry	ND				50	
1,1,1,2-Tetrachloroethane	ND	0.003	ug/g dry	ND				50	
1,1,2,2-Tetrachloroethane	ND	0.003	ug/g dry	ND				50	
Tetrachloroethylene	ND	0.002	ug/g dry	ND				32	
Toluene	ND	0.002	ug/g dry	ND				32	
1,1,1-Trichloroethane	ND	0.002	ug/g dry	ND				50	
1,1,2-Trichloroethane	ND	0.002	ug/g dry	ND				50	
Trichloroethylene	ND	0.003	ug/g dry	ND				31	
Trichlorofluoromethane	ND	0.005	ug/g dry	ND				50	
1,3,5-Trimethylbenzene	ND	0.003	ug/g dry	ND				43	
Vinyl chloride	ND	0.002	ug/g dry	ND				50	
m,p-Xylenes	ND	0.002	ug/g dry	ND				35	
o-Xylene	ND	0.002	ug/g dry	ND				50	
Surrogate: 4-Bromofluorobenzene	0.185		ug/g dry	ND	112	83-134			
Surrogate: Dibromofluoromethane	0.204		ug/g dry	ND	123	78-124			
Surrogate: Toluene-d8	0.192		ug/g dry	ND	116	76-118			

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	0.0844	0.002	ug/g	ND	124	55-141			
Bromodichloromethane	0.0678	0.002	ug/g	ND	99.7	52-139			
Bromoform	0.0549	0.002	ug/g	ND	80.7	52-170			
Bromomethane	0.0274	0.003	ug/g	ND	40.3	32-138			
Carbon Tetrachloride	0.0603	0.002	ug/g	ND	88.7	49-149			
Chlorobenzene	0.0678	0.002	ug/g	ND	99.7	64-137			
Chloroethane	0.0641	0.005	ug/g	ND	94.3	39-152			
Chloroform	0.0766	0.003	ug/g	ND	113	58-138			
Chloromethane	0.0830	0.020	ug/g	ND	122	24-163			
Dibromochloromethane	0.0663	0.002	ug/g	ND	97.5	61-153			
1,2-Dibromoethane	0.0766	0.002	ug/g	ND	113	61-145			
1,2-Dichlorobenzene	0.0661	0.002	ug/g	ND	97.2	60-150			
1,3-Dichlorobenzene	0.0699	0.002	ug/g	ND	103	62-149			
1,4-Dichlorobenzene	0.0705	0.002	ug/g	ND	104	63-132			
1,1-Dichloroethane	0.0835	0.002	ug/g	ND	123	51-156			
1,2-Dichloroethane	0.0863	0.002	ug/g	ND	127	50-140			
1,1-Dichloroethylene	0.0631	0.002	ug/g	ND	92.8	43-153			
cis-1,2-Dichloroethylene	0.0773	0.002	ug/g	ND	114	58-145			
trans-1,2-Dichloroethylene	0.0727	0.003	ug/g	ND	107	51-145			
1,2-Dichloropropane	0.0829	0.002	ug/g	ND	122	56-136			
cis-1,3-Dichloropropylene	0.0823	0.002	ug/g	ND	121	54-141			
trans-1,3-Dichloropropylene	0.0754	0.002	ug/g	ND	111	61-140			
Ethylbenzene	0.0707	0.002	ug/g	ND	104	61-139			
Methylene Chloride	0.0750	0.003	ug/g	ND	110	58-149			
Styrene	0.0788	0.002	ug/g	ND	116	63-143			
1,1,1,2-Tetrachloroethane	0.0606	0.003	ug/g	ND	89.1	61-148			
1,1,2,2-Tetrachloroethane	0.0749	0.003	ug/g	ND	110	50-157			
Tetrachloroethylene	0.0516	0.002	ug/g	ND	75.8	51-145			
Toluene	0.0777	0.002	ug/g	ND	114	54-136			
1,1,1-Trichloroethane	0.0676	0.002	ug/g	ND	99.4	55-140			
1,1,2-Trichloroethane	0.0976	0.002	ug/g	ND	143	63-144			
Trichloroethylene	0.0782	0.003	ug/g	ND	115	52-135			
Trichlorofluoromethane	0.0378	0.005	ug/g	ND	55.6	37-155			
1,3,5-Trimethylbenzene	0.0772	0.003	ug/g	ND	114	61-151			
Vinyl chloride	0.0443	0.002	ug/g	ND	65.2	31-159			
m,p-Xylenes	0.147	0.002	ug/g	ND	108	61-139			
o-Xylene	0.0789	0.002	ug/g	ND	116	60-142			
Surrogate: 4-Bromofluorobenzene	0.138		ug/g		102	83-134			
Surrogate: Dibromofluoromethane	0.161		ug/g		118	78-124			
Surrogate: Toluene-d8	0.128		ug/g		93.9	76-118			

Certificate of Analysis

Report Date: 20-Oct-2009

Order Date: 14-Oct-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 8572

Project Description: PE1616

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

Soil results are reported on a dry weight basis when the units are denoted with 'dry'.

Where %Solids is reported, moisture loss includes the loss of volatile hydrocarbons.



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Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1

Nepean, ON K2E 7T7

Attn: Derek Storie

Phone: (613) 226-7381

Fax: (613) 226-6344

Client PO: 7364

Project: PE16'6

Custody: 54963

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Order #: 0939070

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
0939070-01	BH1-GW1
0939070-02	BH2-GW1

Approved By:

Dale Robertson, BSc
Laboratory Director

Any use of these 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 circumstances be liable to you in connection with this work.

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 7364

Project Description: PE1616

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
VOCs	EPA 824 - P&T GC-MS	24-Sep-09	25-Sep-09

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: Paterson Group Consulting Engineers

Client PO: 7364

Project Description: PE 1616

	Client ID:	BH1-GW1	BH2-GW1	-	-
	Sample Date:	21 Sep 09	21 Sep 09	-	-
	Sample ID:	0939070-01	0939070-02	-	-
	MDL/Units	Water	Water	-	-

Volatiles

	MDL/Units	BH1-GW1	BH2-GW1	-	-
Benzene	0.5 ug/L	<0.5	<0.5	-	-
Bromodichloromethane	0.4 ug/L	<0.4	<0.4	-	-
Bromobenzene	0.5 ug/L	<0.5	<0.5	-	-
Bromomethane	0.7 ug/L	<0.7	<0.7	-	-
Carbon Tetrachloride	0.5 ug/L	<0.5	<0.5	-	-
Chlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
Chloroethane	1.0 ug/L	<1.0	<1.0	-	-
Chloroform	0.5 ug/L	5.6	4.5	-	-
Chloromethane	3.0 ug/L	<3.0	<3.0	-	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dibromomethane	1.0 ug/L	<1.0	<1.0	-	-
1,2-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,3-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,4-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,1-Dichloroethane	0.5 ug/L	3.4	<0.5	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	9.3	<0.5	-	-
cis-1,2-Dichloroethylene	0.4 ug/L	236	<0.4	-	-
trans-1,2-Dichloroethylene	1.0 ug/L	2.0	<1.0	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.4 ug/L	<0.4	<0.4	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Methylene Chloride	1.0 ug/L	<1.0	<1.0	-	-
Glycine	0.4 ug/L	<0.4	<0.4	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1,1,2-Tetrachloroethane	0.6 ug/L	<0.6	<0.6	-	-
Tetrachloroethylene	0.5 ug/L	33200	<0.5	-	-
Toluene	0.5 ug/L	<0.5	<0.5	-	-
1,1,1-Trichloroethane	0.4 ug/L	<0.4	<0.4	-	-
1,1,2-Trichloroethane	0.6 ug/L	<0.6	<0.6	-	-

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: Paterson Group Consulting Engineers

Client PO: 7364

Project Description: PE1616

	Client ID:	BH1-GW1	BH2-GW1		
	Sample Date:	21-Sep-09	21-Sep-09		
	Sample ID:	0939070-01	0939070-02		
	MDL/Units	Water	Water		
Trichloroethylene	0.4 ug/L	550	<0.4	-	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	-	-
1,3,5-Trimethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Vinyl chloride	0.4 ug/L	32.7	<0.4	-	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate	100%	102%	-	-
Dibromofluoromethane	Surrogate	114%	108%	-	-
Toluene-d8	Surrogate	95.0%	110%	-	-

Certificate of Analysis

Report Date: 25-Sep-2008

Order Date: 21-Sep-2008

Client: Paterson Group Consulting Engineers

Client PO: 7384

Project Description: PE1618

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%RSD	%RFD Limit	RPO	RFD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L						
Bromochloromethane	ND	0.4	ug/L						
Bromoform	ND	0.5	ug/L						
Bromonitroethane	ND	0.7	ug/L						
Carbon Tetrachloride	ND	0.5	ug/L						
Chlorobenzene	ND	0.4	ug/L						
Chloroethane	ND	1.0	ug/L						
Chloroform	ND	0.5	ug/L						
Chloro-methane	ND	3.0	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
1,2-Dibromobenzene	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.4	ug/L						
1,3-Dichlorobenzene	ND	0.4	ug/L						
1,4-Dichlorobenzene	ND	0.4	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.4	ug/L						
trans-1,2-Dichloroethylene	ND	1.0	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.4	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Methylene Chloride	ND	4.0	ug/L						
Styrene	ND	0.4	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.8	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.4	ug/L						
1,1,2-Trichloroethane	ND	0.6	ug/L						
Trichloroethylene	ND	0.4	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
1,3,5-Trimethylbenzene	ND	0.5	ug/L						
Vinyl chloride	ND	0.4	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	80.5		ug/L		10%	82-104			
Surrogate: Dibromofluoromethane	89.2		ug/L		11%	78-124			
Surrogate: Toluene-d8	81.9		ug/L		10%	76-118			

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: Paterson Group Consulting Engineers

Client PO: 1364

Project Description: PF1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L	ND				20	
Bromodichloromethane	ND	0.4	ug/L	ND				20	
Bromoform	ND	0.5	ug/L	ND				20	
Bromomethane	ND	0.7	ug/L	ND				20	
Carbon Tetrachloride	ND	0.5	ug/L	ND				20	
Chlorobenzene	ND	0.4	ug/L	ND				20	
Chloroethane	ND	1.0	ug/L	ND				20	
Chloroform	ND	0.5	ug/L	ND				10	
Chloromethane	ND	3.0	ug/L	ND				25	
Dibromochloromethane	ND	0.5	ug/L	ND				20	
1,2-Dibromomethane	ND	1.0	ug/L	ND				25	
1,2-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,3-Dichlorobenzene	ND	0.4	ug/L	ND				20	
1,4-Dichlorobenzene	ND	0.4	ug/L	ND				20	
1,1-Dichloroethane	ND	0.5	ug/L	ND				21	
1,2-Dichloroethane	ND	3.5	ug/L	ND				20	
1,1-Dichloroethylene	ND	3.5	ug/L	ND				21	
cis-1,2-Dichloroethylene	ND	3.4	ug/L	ND				20	
trans-1,2-Dichloroethylene	ND	1.0	ug/L	ND				20	
1,2-Dichloropropane	ND	0.5	ug/L	ND				20	
cis-1,3-Dichloropropylene	ND	3.4	ug/L	ND				20	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				20	
Ethylbenzene	ND	0.5	ug/L	ND				30	
Methylene Chloride	ND	4.0	ug/L	ND				20	
Styrene	ND	0.4	ug/L	ND				20	
1,1,1-Trichloroethane	ND	0.5	ug/L	ND				20	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND				20	
Tetrachloroethylene	ND	0.5	ug/L	ND				10	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.4	ug/L	ND				20	
1,1,2-Trichloroethane	ND	0.5	ug/L	ND				20	
Trichloroethylene	ND	0.4	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				20	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	ND				20	
Vinyl chloride	ND	0.4	ug/L	ND				20	
m,p-Xylenes	ND	0.5	ug/L	ND				30	
o-Xylene	ND	0.5	ug/L	ND				30	
Surrogate: 4-Bromobromobenzene	80.5		ug/L	ND	101	103-104			
Surrogate: Dibromofluoromethane	81.7		ug/L	ND	110	75-124			
Surrogate: Toluene-d8	84.5		ug/L	ND	100	70-110			

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: Paterson Group Consulting Engineers

Client PO: 7364

Project Description: Pt.1E*5

Method Quality Control: Spike

Analyte	Result	Reporting Unit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	48.6	0.5	ug/L	ND	121	55-141			
Bromodichloromethane	52.8	0.4	ug/L	ND	132	52-139			
Bromotoluene	50.2	0.5	ug/L	ND	126	52-170			
Bromomethane	14.4	0.7	ug/L	ND	35.9	32-138			
Carbon Tetrachloride	53.4	0.5	ug/L	ND	133	49-149			
Chlorobenzene	38.7	0.4	ug/L	ND	96.6	64-137			
Chloroethane	44.4	1.0	ug/L	ND	111	38-152			
Chloroform	43.3	0.5	ug/L	ND	108	58-138			
Chloromethane	46.8	3.0	ug/L	ND	117	24-163			
Dibromochloromethane	52.0	0.5	ug/L	ND	132	81-153			
1,2-Dibromomethane	47.4	1.0	ug/L	ND	110	61-145			
1,2-Dichlorobenzene	36.7	0.4	ug/L	ND	91.8	60-150			
1,3-Dichlorobenzene	36.2	0.4	ug/L	ND	90.4	62-149			
1,4-Dichlorobenzene	36.4	0.4	ug/L	ND	90.2	63-152			
1,1-Dichloroethane	41.6	0.5	ug/L	ND	104	61-156			
1,2-Dichloroethane	48.7	0.5	ug/L	ND	122	50-143			
1,1-Dichloroethylene	44.0	0.5	ug/L	ND	110	43-153			
cis-1,2-Dichloroethylene	40.9	0.4	ug/L	ND	102	58-145			
trans-1,2-Dichloroethylene	43.0	1.0	ug/L	ND	109	51-145			
1,2-Dichloropropane	49.0	0.5	ug/L	ND	125	56-135			
cis-1,3-Dichloropropylene	52.2	0.4	ug/L	ND	130	54-141			
trans-1,3-Dichloropropylene	50.9	1.8	ug/L	ND	127	61-140			
Dihydrobenzene	40.0	3.5	ug/L	ND	100	61-139			
Methylene Chloride	45.2	4.0	ug/L	ND	123	50-148			
Styrene	40.8	0.4	ug/L	ND	102	60-143			
1,1,1,2-Tetrachloroethane	47.0	0.5	ug/L	ND	119	61-148			
1,1,2,2-Tetrachloroethane	39.3	0.6	ug/L	ND	97.4	50-157			
Tetrachloroethylene	36.7	0.5	ug/L	ND	91.8	51-145			
Toluene	42.5	0.5	ug/L	ND	105	54-138			
1,1,1-Trichloroethane	47.7	0.4	ug/L	ND	119	55-140			
1,1,2-Trichloroethane	44.5	0.6	ug/L	ND	111	63-141			
Trichloroethylene	50.7	0.4	ug/L	ND	127	52-135			
Trichlorofluoromethane	47.0	1.0	ug/L	ND	117	32-155			
1,3,5-Trimethylbenzene	37.2	0.5	ug/L	ND	92.8	61-151			
Vinyl chloride	49.2	0.4	ug/L	ND	121	31-159			
m,p-Xylenes	78.1	0.5	ug/L	ND	97.6	61-159			
o-Xylene	38.9	0.5	ug/L	ND	99.8	60-142			
Surrogate: 1-Bromofluorobenzene	75.8		ug/L		94.5	93-134			
Surrogate: Dibromofluoromethane	70.3		ug/L		57.9	70-124			
Surrogate: Toluene-d8	75.3		ug/L		54.2	76-116			

Certificate of Analysis

Report Date: 25-Sep-2009

Order Date: 21-Sep-2009

Client: Paterson Group Consulting Engineers

Client PO: 7364

Project Description: PE1616

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MUL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1
Nepean, ON K2E 7T7

Attn: Mark D'Arcy

Client PO: 8166

Project: PE1616

Custody: 62617

Phone: (613) 226-7381

Fax: (613) 226-6344

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

Order #: 0943075

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
0943075-01	BH3 - GW1
0943075-02	BH4 - GW1
0943075-03	BH5 - GW1

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Any use of these 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 circumstances be liable to you in connection with this work

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
VOCs	EPA 624 - P&T GC-MS	20-Oct-09	22-Oct-09

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

	Client ID:	BH3 - GW1	BH4 - GW1	BH5 - GW1	-
	Sample Date:	20-Oct-09	20-Oct-09	20-Oct-09	-
	Sample ID:	0943075-01	0943075-02	0943075-03	-
	MDL/Units	Water	Water	Water	-

Volatiles

	MDL/Units	BH3 - GW1	BH4 - GW1	BH5 - GW1	-
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	-
Bromodichloromethane	0.4 ug/L	<0.4	<0.4	<0.4	-
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	-
Bromomethane	0.7 ug/L	<0.7	<0.7	<0.7	-
Carbon Tetrachloride	0.5 ug/L	<0.5	<0.5	<0.5	-
Chlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
Chloroethane	1.0 ug/L	<1.0	<1.0	<1.0	-
Chloroform	0.5 ug/L	11.8	10.3	12.7	-
Chloromethane	3.0 ug/L	<3.0	<3.0	<3.0	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,2-Dibromoethane	1.0 ug/L	<1.0	<1.0	<1.0	-
1,2-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,3-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,4-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1-Dichloroethane	0.5 ug/L	1.7	<0.5	<0.5	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,1-Dichloroethylene	0.5 ug/L	3.8	<0.5	<0.5	-
cis-1,2-Dichloroethylene	0.4 ug/L	4.7	<0.4	<0.4	-
trans-1,2-Dichloroethylene	1.0 ug/L	<1.0	<1.0	<1.0	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	-
cis-1,3-Dichloropropylene	0.4 ug/L	<0.4	<0.4	<0.4	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	-
Methylene Chloride	4.0 ug/L	<4.0	<4.0	<4.0	-
Styrene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,1,1,2,2-Tetrachloroethane	0.6 ug/L	<0.6	<0.6	<0.6	-
Tetrachloroethylene	0.5 ug/L	48600	<0.5	39.1	-
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	-
1,1,1-Trichloroethane	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1,2-Trichloroethane	0.6 ug/L	<0.6	<0.6	<0.6	-

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

	Client ID:	BH3 - GW1	BH4 - GW1	BH5 - GW1	-
	Sample Date:	20-Oct-09	20-Oct-09	20-Oct-09	-
	Sample ID:	0943075-01	0943075-02	0943075-03	-
	MDL/Units	Water	Water	Water	-
Trichloroethylene	0.4 ug/L	163	<0.4	0.8	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	-
1,3,5-Trimethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	-
Vinyl chloride	0.4 ug/L	<0.4	<0.4	<0.4	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5	-
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5	-
4-Bromofluorobenzene	Surrogate	91.4%	92.8%	90.9%	-
Dibromofluoromethane	Surrogate	86.9%	83.6%	84.5%	-
Toluene-d8	Surrogate	79.2%	115%	114%	-

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.4	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.7	ug/L						
Carbon Tetrachloride	ND	0.5	ug/L						
Chlorobenzene	ND	0.4	ug/L						
Chloroethane	ND	1.0	ug/L						
Chloroform	ND	0.5	ug/L						
Chloromethane	ND	3.0	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
1,2-Dibromoethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.4	ug/L						
1,3-Dichlorobenzene	ND	0.4	ug/L						
1,4-Dichlorobenzene	ND	0.4	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.4	ug/L						
trans-1,2-Dichloroethylene	ND	1.0	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.4	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Methylene Chloride	ND	4.0	ug/L						
Styrene	ND	0.4	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.4	ug/L						
1,1,2-Trichloroethane	ND	0.6	ug/L						
Trichloroethylene	ND	0.4	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
1,3,5-Trimethylbenzene	ND	0.5	ug/L						
Vinyl chloride	ND	0.4	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	71.2		ug/L		89.0	83-134			
Surrogate: Dibromofluoromethane	79.0		ug/L		98.7	78-124			
Surrogate: Toluene-d8	92.3		ug/L		115	76-118			

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L	ND				20	
Bromodichloromethane	ND	0.4	ug/L	ND				25	
Bromoform	ND	0.5	ug/L	ND				25	
Bromomethane	ND	0.7	ug/L	ND				25	
Carbon Tetrachloride	ND	0.5	ug/L	ND				25	
Chlorobenzene	ND	0.4	ug/L	ND				25	
Chloroethane	ND	1.0	ug/L	ND				25	
Chloroform	ND	0.5	ug/L	ND				19	
Chloromethane	ND	3.0	ug/L	ND				25	
Dibromochloromethane	ND	0.5	ug/L	ND				25	
1,2-Dibromoethane	ND	1.0	ug/L	ND				25	
1,2-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,3-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,4-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,1-Dichloroethane	ND	0.5	ug/L	ND				21	
1,2-Dichloroethane	ND	0.5	ug/L	ND				25	
1,1-Dichloroethylene	ND	0.5	ug/L	ND				21	
cis-1,2-Dichloroethylene	ND	0.4	ug/L	ND				20	
trans-1,2-Dichloroethylene	ND	1.0	ug/L	ND				25	
1,2-Dichloropropane	ND	0.5	ug/L	ND				25	
cis-1,3-Dichloropropylene	ND	0.4	ug/L	ND				25	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				25	
Ethylbenzene	ND	0.5	ug/L	ND				35	
Methylene Chloride	ND	4.0	ug/L	ND				25	
Styrene	ND	0.4	ug/L	ND				25	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND				25	
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L	ND				25	
Tetrachloroethylene	ND	0.5	ug/L	ND				31	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.4	ug/L	ND				25	
1,1,2-Trichloroethane	ND	0.6	ug/L	ND				25	
Trichloroethylene	ND	0.4	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				25	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	ND				20	
Vinyl chloride	ND	0.4	ug/L	ND				25	
m,p-Xylenes	ND	0.5	ug/L	ND				34	
o-Xylene	ND	0.5	ug/L	ND				32	
Surrogate: 4-Bromofluorobenzene	72.9		ug/L	ND	91.1	83-134			
Surrogate: Dibromofluoromethane	68.3		ug/L	ND	85.4	78-124			
Surrogate: Toluene-d8	90.3		ug/L	ND	113	76-118			

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	29.5	0.5	ug/L	ND	73.8	55-141			
Bromodichloromethane	41.3	0.4	ug/L	ND	103	52-139			
Bromoform	50.4	0.5	ug/L	ND	126	52-170			
Bromomethane	19.4	0.7	ug/L	ND	48.6	32-138			
Carbon Tetrachloride	37.3	0.5	ug/L	ND	93.3	49-149			
Chlorobenzene	38.4	0.4	ug/L	ND	96.0	64-137			
Chloroethane	33.0	1.0	ug/L	ND	82.6	39-152			
Chloroform	38.0	0.5	ug/L	ND	95.0	58-138			
Chloromethane	25.0	3.0	ug/L	ND	62.4	24-163			
Dibromochloromethane	49.8	0.5	ug/L	ND	125	61-153			
1,2-Dibromoethane	50.7	1.0	ug/L	ND	127	61-145			
1,2-Dichlorobenzene	37.4	0.4	ug/L	ND	93.6	60-150			
1,3-Dichlorobenzene	37.6	0.4	ug/L	ND	94.1	62-149			
1,4-Dichlorobenzene	37.9	0.4	ug/L	ND	94.8	63-132			
1,1-Dichloroethane	39.3	0.5	ug/L	ND	98.2	51-156			
1,2-Dichloroethane	39.5	0.5	ug/L	ND	98.7	50-140			
1,1-Dichloroethylene	41.0	0.5	ug/L	ND	102	43-153			
cis-1,2-Dichloroethylene	32.1	0.4	ug/L	ND	80.2	58-145			
trans-1,2-Dichloroethylene	40.6	1.0	ug/L	ND	102	51-145			
1,2-Dichloropropane	36.4	0.5	ug/L	ND	91.0	56-136			
cis-1,3-Dichloropropylene	39.6	0.4	ug/L	ND	99.0	54-141			
trans-1,3-Dichloropropylene	39.4	0.5	ug/L	ND	98.6	61-140			
Ethylbenzene	45.3	0.5	ug/L	ND	113	61-139			
Methylene Chloride	38.8	4.0	ug/L	ND	96.9	58-149			
Styrene	42.4	0.4	ug/L	ND	106	63-143			
1,1,1,2-Tetrachloroethane	49.8	0.5	ug/L	ND	125	61-148			
1,1,2,2-Tetrachloroethane	48.5	0.6	ug/L	ND	121	50-157			
Tetrachloroethylene	36.2	0.5	ug/L	ND	90.5	51-145			
Toluene	25.0	0.5	ug/L	ND	62.4	54-136			
1,1,1-Trichloroethane	37.4	0.4	ug/L	ND	93.6	55-140			
1,1,2-Trichloroethane	31.1	0.6	ug/L	ND	77.7	63-144			
Trichloroethylene	37.5	0.4	ug/L	ND	93.7	52-135			
Trichlorofluoromethane	40.2	1.0	ug/L	ND	100	37-155			
1,3,5-Trimethylbenzene	37.8	0.5	ug/L	ND	94.4	61-151			
Vinyl chloride	35.4	0.4	ug/L	ND	88.4	31-159			
m,p-Xylenes	85.5	0.5	ug/L	ND	107	61-139			
o-Xylene	45.8	0.5	ug/L	ND	114	60-142			
Surrogate: 4-Bromofluorobenzene	72.3		ug/L		90.4	83-134			
Surrogate: Dibromofluoromethane	68.8		ug/L		86.0	78-124			
Surrogate: Toluene-d8	82.6		ug/L		103	76-118			

Certificate of Analysis

Report Date: 22-Oct-2009

Order Date: 20-Oct-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 8166

Project Description: PE1616

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.



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www.paracellabs.com

Chain of Custody Record
N^o 62617

Pg. ___ of ___

Company Name: PETERSON GROUP INC.
 Contact Name: Mark Diney
 Address: _____
 Tel: _____ Cell: _____
 Email: mdiney@petersongroup.ca

Project Ref: PE1616
 PO#: 8166
 Quote #: _____ Not Quoted
 Preservative to be added by Paracel? Yes No

Date Required: _____
 Turn Around Time: | 1-day | 2-day | | Regular
 Regulatory/Guideline Requirements
MOE Table 1

Matrix Types: S-Soil/Sed GW-Ground Water SW-Surface Water SS-Slurry/Sanitary Sewer A-Air O-Other RDW-Regulated Drinking Water

Paracel Order #	Sample Identification	Matrix	Air Volume	# Containers	Date Sampled dd/mm/yy	Analysis Required	Hazardous? (Y/N)
	<u>0943075</u>						
1	<u>BH3-GW</u>	<u>GW</u>		<u>2</u>	<u>20/10/09</u>		
2	<u>BH4-GW</u>	<u>GW</u>		<u>2</u>	<u>20/10/09</u>		
3	<u>BH5-GW</u>	<u>GW</u>		<u>2</u>	<u>20/10/09</u>		
4							
5							
6							
7							
8							
9							
10							

Comments: _____

J. Long

Reinquished By: Kurt Frawley Date: 20/10/09 Time: 10:15
 Received at Depot: Date: 05/20/09 Time: 1:35
 Received at Lab: DeoC Date: 10/20/09 Time: 10:45
 Verified By: DeoC Date: 10/20/09 Time: 17:33

Please refer to the back page for Locations and Sample Preservation, Container and Hold Time Requirements.

WHITE - Lab Copy, PINK - Client Copy

Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1
Nepean, ON K2E 7T7

Attn: Mark D'Arcy

Client PO: 7437

Project: PE1616

Custody: 60333

Phone: (613) 226-7381

Fax: (613) 226-6344

Report Date: 3-Nov-2009

Order Date: 2-Nov-2009

Order #: 0945023

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
0945023-01	BH6-GW1
0945023-02	BH7-GW1

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Any use of these 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 circumstances be liable to you in connection with this work

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
VOCs	EPA 624 - P&T GC-MS	2-Nov-09	3-Nov-09

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Client ID:	BH6-GW1	BH7-GW1	-	-
Sample Date:	02-Nov-09	02-Nov-09	-	-
Sample ID:	0945023-01	0945023-02	-	-
MDL/Units	Water	Water	-	-

Volatiles

Benzene	0.5 ug/L	<0.5	<0.5	-	-
Bromodichloromethane	0.4 ug/L	<0.4	0.6	-	-
Bromoform	0.5 ug/L	<0.5	<0.5	-	-
Bromomethane	0.7 ug/L	<0.7	<0.7	-	-
Carbon Tetrachloride	0.5 ug/L	<0.5	<0.5	-	-
Chlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
Chloroethane	1.0 ug/L	<1.0	<1.0	-	-
Chloroform	0.5 ug/L	0.5	5.0	-	-
Chloromethane	3.0 ug/L	<3.0	<3.0	-	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dibromoethane	1.0 ug/L	<1.0	<1.0	-	-
1,2-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,3-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,4-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	-	-
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	-	-
cis-1,2-Dichloroethylene	0.4 ug/L	<0.4	<0.4	-	-
trans-1,2-Dichloroethylene	1.0 ug/L	<1.0	<1.0	-	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	-	-
cis-1,3-Dichloropropylene	0.4 ug/L	<0.4	<0.4	-	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Methylene Chloride	4.0 ug/L	<4.0	<4.0	-	-
Styrene	0.4 ug/L	<0.4	<0.4	-	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	-	-
1,1,1,2,2-Tetrachloroethane	0.6 ug/L	<0.6	<0.6	-	-
Tetrachloroethylene	0.5 ug/L	0.9	<0.5	-	-
Toluene	0.5 ug/L	15.5	<0.5	-	-
1,1,1-Trichloroethane	0.4 ug/L	<0.4	<0.4	-	-
1,1,2-Trichloroethane	0.6 ug/L	<0.6	<0.6	-	-

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

	Client ID:	BH6-GW1	BH7-GW1	-	-
	Sample Date:	02-Nov-09	02-Nov-09	-	-
	Sample ID:	0945023-01	0945023-02	-	-
	MDL/Units	Water	Water	-	-
Trichloroethylene	0.4 ug/L	0.4	1.0	-	-
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	-	-
1,3,5-Trimethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Vinyl chloride	0.4 ug/L	<0.4	<0.4	-	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	-	-
4-Bromofluorobenzene	Surrogate	109%	106%	-	-
Dibromofluoromethane	Surrogate	104%	113%	-	-
Toluene-d8	Surrogate	107%	107%	-	-

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.4	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.7	ug/L						
Carbon Tetrachloride	ND	0.5	ug/L						
Chlorobenzene	ND	0.4	ug/L						
Chloroethane	ND	1.0	ug/L						
Chloroform	ND	0.5	ug/L						
Chloromethane	ND	3.0	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
1,2-Dibromoethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.4	ug/L						
1,3-Dichlorobenzene	ND	0.4	ug/L						
1,4-Dichlorobenzene	ND	0.4	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.4	ug/L						
trans-1,2-Dichloroethylene	ND	1.0	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.4	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Methylene Chloride	ND	4.0	ug/L						
Styrene	ND	0.4	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.4	ug/L						
1,1,2-Trichloroethane	ND	0.6	ug/L						
Trichloroethylene	ND	0.4	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
1,3,5-Trimethylbenzene	ND	0.5	ug/L						
Vinyl chloride	ND	0.4	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Surrogate: 4-Bromofluorobenzene	77.2		ug/L		96.6	83-134			
Surrogate: Dibromofluoromethane	75.6		ug/L		94.5	78-124			
Surrogate: Toluene-d8	83.1		ug/L		104	76-118			

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L	ND				20	
Bromodichloromethane	ND	0.4	ug/L	ND				25	
Bromoform	ND	0.5	ug/L	ND				25	
Bromomethane	ND	0.7	ug/L	ND				25	
Carbon Tetrachloride	ND	0.5	ug/L	ND				25	
Chlorobenzene	ND	0.4	ug/L	ND				25	
Chloroethane	ND	1.0	ug/L	ND				25	
Chloroform	ND	0.5	ug/L	ND				19	
Chloromethane	ND	3.0	ug/L	ND				25	
Dibromochloromethane	ND	0.5	ug/L	ND				25	
1,2-Dibromoethane	ND	1.0	ug/L	ND				25	
1,2-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,3-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,4-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,1-Dichloroethane	ND	0.5	ug/L	ND				21	
1,2-Dichloroethane	ND	0.5	ug/L	ND				25	
1,1-Dichloroethylene	ND	0.5	ug/L	ND				21	
cis-1,2-Dichloroethylene	ND	0.4	ug/L	ND				20	
trans-1,2-Dichloroethylene	ND	1.0	ug/L	ND				25	
1,2-Dichloropropane	ND	0.5	ug/L	ND				25	
cis-1,3-Dichloropropylene	ND	0.4	ug/L	ND				25	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				25	
Ethylbenzene	ND	0.5	ug/L	ND				35	
Methylene Chloride	ND	4.0	ug/L	ND				25	
Styrene	ND	0.4	ug/L	ND				25	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND				25	
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L	ND				25	
Tetrachloroethylene	ND	0.5	ug/L	ND				31	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.4	ug/L	ND				25	
1,1,2-Trichloroethane	ND	0.6	ug/L	ND				25	
Trichloroethylene	ND	0.4	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				25	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	ND				20	
Vinyl chloride	ND	0.4	ug/L	ND				25	
m,p-Xylenes	ND	0.5	ug/L	ND				34	
o-Xylene	ND	0.5	ug/L	ND				32	
Surrogate: 4-Bromofluorobenzene	80.8		ug/L	ND	101	83-134			
Surrogate: Dibromofluoromethane	88.0		ug/L	ND	110	78-124			
Surrogate: Toluene-d8	86.8		ug/L	ND	109	76-118			

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

 Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	32.6	0.5	ug/L	ND	81.6	55-141			
Bromodichloromethane	33.1	0.4	ug/L	ND	82.7	52-139			
Bromoform	39.3	0.5	ug/L	ND	98.2	52-170			
Bromomethane	25.9	0.7	ug/L	ND	64.7	32-138			
Carbon Tetrachloride	48.1	0.5	ug/L	ND	120	49-149			
Chlorobenzene	38.7	0.4	ug/L	ND	96.8	64-137			
Chloroethane	23.4	1.0	ug/L	ND	58.4	39-152			
Chloroform	32.7	0.5	ug/L	ND	81.8	58-138			
Chloromethane	23.7	3.0	ug/L	ND	59.2	24-163			
Dibromochloromethane	39.7	0.5	ug/L	ND	99.4	61-153			
1,2-Dibromoethane	37.2	1.0	ug/L	ND	93.1	61-145			
1,2-Dichlorobenzene	39.8	0.4	ug/L	ND	99.4	60-150			
1,3-Dichlorobenzene	37.2	0.4	ug/L	ND	93.0	62-149			
1,4-Dichlorobenzene	38.5	0.4	ug/L	ND	96.3	63-132			
1,1-Dichloroethane	30.6	0.5	ug/L	ND	76.6	51-156			
1,2-Dichloroethane	28.8	0.5	ug/L	ND	72.0	50-140			
1,1-Dichloroethylene	29.5	0.5	ug/L	ND	73.7	43-153			
cis-1,2-Dichloroethylene	34.1	0.4	ug/L	ND	85.3	58-145			
trans-1,2-Dichloroethylene	32.6	1.0	ug/L	ND	81.5	51-145			
1,2-Dichloropropane	32.5	0.5	ug/L	ND	81.3	56-136			
cis-1,3-Dichloropropylene	48.5	0.4	ug/L	ND	121	54-141			
trans-1,3-Dichloropropylene	44.5	0.5	ug/L	ND	111	61-140			
Ethylbenzene	42.9	0.5	ug/L	ND	107	61-139			
Methylene Chloride	28.7	4.0	ug/L	ND	71.6	58-149			
Styrene	38.1	0.4	ug/L	ND	95.3	63-143			
1,1,1,2-Tetrachloroethane	39.8	0.5	ug/L	ND	99.4	61-148			
1,1,2,2-Tetrachloroethane	31.9	0.6	ug/L	ND	79.7	50-157			
Tetrachloroethylene	40.4	0.5	ug/L	ND	101	51-145			
Toluene	34.6	0.5	ug/L	ND	86.5	54-136			
1,1,1-Trichloroethane	31.9	0.4	ug/L	ND	79.8	55-140			
1,1,2-Trichloroethane	30.9	0.6	ug/L	ND	77.2	63-144			
Trichloroethylene	30.9	0.4	ug/L	ND	77.2	52-135			
Trichlorofluoromethane	30.9	1.0	ug/L	ND	77.3	37-155			
1,3,5-Trimethylbenzene	39.5	0.5	ug/L	ND	98.7	61-151			
Vinyl chloride	22.2	0.4	ug/L	ND	55.6	31-159			
m,p-Xylenes	80.1	0.5	ug/L	ND	100	61-139			
o-Xylene	38.4	0.5	ug/L	ND	95.9	60-142			
Surrogate: 4-Bromofluorobenzene	79.8		ug/L		99.7	83-134			
Surrogate: Dibromofluoromethane	88.6		ug/L		111	78-124			
Surrogate: Toluene-d8	77.8		ug/L		97.3	76-118			

Certificate of Analysis

Report Date: 03-Nov-2009

Order Date: 2-Nov-2009

Client: **Paterson Group Consulting Engineers**

Client PO: 7437

Project Description: PE1616

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.



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www.paracellabs.com

Chain of Custody Record

Nº 60333

Pg. 1 of 1

Company Name: <u>PARACEL Group</u>	Project Ref: <u>7437 PE 1616</u>	Date Required: <u>Nov 3</u>
Contact Name: <u>MARK PARCEL</u>	PO# <u>7437</u>	Turn Around Time: <input checked="" type="checkbox"/> 1-day <input type="checkbox"/> 2-day <input type="checkbox"/> Regular
Address: _____	Quote # _____ <input type="checkbox"/> Not Quoted	Regulatory/Guideline Requirements
Tel: <u>226 7381</u> Cell: _____	Preservative to be added by Paracel? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Email: <u>M.Darcy@paracelgroup.ca</u>		

Matrix Types: S-Soil/Sed GW-Ground Water SW-Surface Water SS-Storm/Sanitary Sewer A-Air O-Other RDW-Regulated Drinking Water

Sample Information					Analysis Required													
Parcel Order #	Sample Identification	Matrix	Air Volume	# Containers	Date Sampled dd/mm/yy	VOC's												Hazardous? (Y/N)
0945023																		
1	BK 6 - Gwl	GW	γ	2	Nov 2 2009	✓												
2	BK 7 - Gwl	GW	γ	2	"	✓												
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments: _____

Relinquished By: <u>Mark Darcy</u>	Received at Depot: _____	Received at Lab: <u>[Signature]</u>	Verified By: <u>[Signature]</u>
Date: <u>Nov 2-09</u> Time: <u>12:00</u>	Date: _____ Time: _____	Date: <u>Nov 2, 09</u> Time: <u>12:00</u>	Date: <u>11/2/09</u> Time: <u>12:27</u>

Please refer to the back page for Locations and Sample Preservation, Container and Hold Time Requirements.

WHITE - Lab Copy, PINK - Client Copy

Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1
Nepean, ON K2E 7T7

Attn: Mark D'Arcy

Client PO: 9263

Project: PE1616

Custody: 74330

Phone: (613) 226-7381

Fax: (613) 226-6344

Report Date: 13-Oct-2010

Order Date: 7-Oct-2010

Order #: 1041265

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1041265-01	BH4-GW2
1041265-02	BH5-GW2
1041265-03	BH6-GW2
1041265-04	BH7-GW2

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Certificate of AnalysisClient: **Paterson Group Consulting Engineers**

Client PO: 9263

Project Description: PE1616

Report Date: 13-Oct-2010

Order Date: 7-Oct-2010

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
VOCs	EPA 624 - P&T GC-MS	8-Oct-10	8-Oct-10

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

Client ID:	BH4-GW2	BH5-GW2	BH6-GW2	BH7-GW2
Sample Date:	07-Oct-10	07-Oct-10	07-Oct-10	07-Oct-10
Sample ID:	1041265-01	1041265-02	1041265-03	1041265-04
MDL/Units	Water	Water	Water	Water

Volatiles

Compound	MDL/Units	BH4-GW2	BH5-GW2	BH6-GW2	BH7-GW2
Benzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromodichloromethane	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Bromomethane	0.7 ug/L	<0.7	<0.7	<0.7	<0.7
Carbon Tetrachloride	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Chlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
Chloroethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
Chloroform	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Chloromethane	3.0 ug/L	<3.0	<3.0	<3.0	<3.0
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
1,3-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
1,4-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
1,1-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1-Dichloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethylene	0.4 ug/L	<0.4	0.8	<0.4	<0.4
trans-1,2-Dichloroethylene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethylene, total	1.4 ug/L	<1.4	<1.4	<1.4	<1.4
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropylene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,3-Dichloropropene, total	0.9 ug/L	<0.9	<0.9	<0.9	<0.9
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Methylene Chloride	4.0 ug/L	<4.0	<4.0	<4.0	<4.0
Styrene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1,2,2-Tetrachloroethane	0.6 ug/L	<0.6	<0.6	<0.6	<0.6
Tetrachloroethylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Toluene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
1,1,2-Trichloroethane	0.6 ug/L	<0.6	<0.6	<0.6	<0.6

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

	Client ID:	BH4-GW2	BH5-GW2	BH6-GW2	BH7-GW2
	Sample Date:	07-Oct-10	07-Oct-10	07-Oct-10	07-Oct-10
	Sample ID:	1041265-01	1041265-02	1041265-03	1041265-04
	MDL/Units	Water	Water	Water	Water
Trichloroethylene	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
Trichlorofluoromethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Vinyl chloride	0.4 ug/L	<0.4	<0.4	<0.4	<0.4
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
o-Xylene	0.5 ug/L	<0.5	<0.5	<0.5	<0.5
Xylenes, total	1.0 ug/L	<1.0	<1.0	<1.0	<1.0
4-Bromofluorobenzene	Surrogate	127%	132%	133%	116%
Dibromofluoromethane	Surrogate	91.5%	92.0%	92.1%	92.1%
Toluene-d8	Surrogate	104%	103%	105%	103%

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.4	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.7	ug/L						
Carbon Tetrachloride	ND	0.5	ug/L						
Chlorobenzene	ND	0.4	ug/L						
Chloroethane	ND	1.0	ug/L						
Chloroform	ND	0.5	ug/L						
Chloromethane	ND	3.0	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
1,2-Dibromoethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.4	ug/L						
1,3-Dichlorobenzene	ND	0.4	ug/L						
1,4-Dichlorobenzene	ND	0.4	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.4	ug/L						
trans-1,2-Dichloroethylene	ND	1.0	ug/L						
1,2-Dichloroethylene, total	ND	1.4	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.4	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.9	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Methylene Chloride	ND	4.0	ug/L						
Styrene	ND	0.4	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.4	ug/L						
1,1,2-Trichloroethane	ND	0.6	ug/L						
Trichloroethylene	ND	0.4	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
1,3,5-Trimethylbenzene	ND	0.5	ug/L						
Vinyl chloride	ND	0.4	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	1.0	ug/L						
Surrogate: 4-Bromofluorobenzene	100		ug/L		125	83-134			
Surrogate: Dibromofluoromethane	71.8		ug/L		89.7	78-124			
Surrogate: Toluene-d8	82.8		ug/L		104	76-118			

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L	ND				20	
Bromodichloromethane	2.80	0.4	ug/L	2.21			23.6	25	
Bromoform	ND	0.5	ug/L	ND				25	
Bromomethane	ND	0.7	ug/L	ND				25	
Carbon Tetrachloride	ND	0.5	ug/L	ND				25	
Chlorobenzene	ND	0.4	ug/L	ND				25	
Chloroethane	ND	1.0	ug/L	ND				25	
Chloroform	3.73	0.5	ug/L	2.87			26.1	19	QR-05
Chloromethane	ND	3.0	ug/L	ND				25	
Dibromochloromethane	1.91	0.5	ug/L	1.50			24.0	25	
Dichlorodifluoromethane	ND	1.0	ug/L	ND				25	
1,2-Dibromoethane	ND	1.0	ug/L	ND				25	
1,2-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,3-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,4-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,1-Dichloroethane	ND	0.5	ug/L	ND				21	
1,2-Dichloroethane	ND	0.5	ug/L	ND				25	
1,1-Dichloroethylene	ND	0.5	ug/L	ND				21	
cis-1,2-Dichloroethylene	ND	0.4	ug/L	ND				20	
trans-1,2-Dichloroethylene	ND	1.0	ug/L	ND				25	
1,2-Dichloropropane	ND	0.5	ug/L	ND				25	
cis-1,3-Dichloropropylene	ND	0.4	ug/L	ND				25	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				25	
Ethylbenzene	ND	0.5	ug/L	ND				35	
Hexane	ND	1.0	ug/L	ND				25	
Methylene Chloride	ND	4.0	ug/L	ND				25	
Styrene	ND	0.4	ug/L	ND				25	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND				25	
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L	ND				25	
Tetrachloroethylene	ND	0.5	ug/L	ND				31	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.4	ug/L	ND				25	
1,1,2-Trichloroethane	ND	0.6	ug/L	ND				25	
Trichloroethylene	ND	0.4	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				25	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	ND				20	
Vinyl chloride	ND	0.4	ug/L	ND				25	
m,p-Xylenes	ND	0.5	ug/L	ND				34	
o-Xylene	ND	0.5	ug/L	ND				32	
Surrogate: 4-Bromofluorobenzene	105		ug/L	ND	132	83-134			
Surrogate: Dibromofluoromethane	71.6		ug/L	ND	89.4	78-124			
Surrogate: Toluene-d8	83.8		ug/L	ND	105	76-118			

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	31.1	0.5	ug/L	ND	77.7	55-141			
Bromodichloromethane	33.7	0.4	ug/L	ND	84.2	52-139			
Bromoform	35.5	0.5	ug/L	ND	88.6	52-170			
Bromomethane	30.9	0.7	ug/L	ND	77.3	32-138			
Carbon Tetrachloride	36.1	0.5	ug/L	ND	90.2	49-149			
Chlorobenzene	35.3	0.4	ug/L	ND	88.2	64-137			
Chloroethane	32.0	1.0	ug/L	ND	79.9	39-152			
Chloroform	27.3	0.5	ug/L	ND	68.2	58-138			
Chloromethane	29.9	3.0	ug/L	ND	74.6	24-163			
Dibromochloromethane	38.4	0.5	ug/L	ND	96.1	61-153			
1,2-Dibromoethane	35.6	1.0	ug/L	ND	88.9	61-145			
1,2-Dichlorobenzene	42.1	0.4	ug/L	ND	105	60-150			
1,3-Dichlorobenzene	37.2	0.4	ug/L	ND	93.0	62-149			
1,4-Dichlorobenzene	35.3	0.4	ug/L	ND	88.4	63-132			
1,1-Dichloroethane	26.8	0.5	ug/L	ND	67.1	51-156			
1,2-Dichloroethane	23.0	0.5	ug/L	ND	57.4	50-140			
1,1-Dichloroethylene	29.4	0.5	ug/L	ND	73.4	43-153			
cis-1,2-Dichloroethylene	26.4	0.4	ug/L	ND	65.9	58-145			
trans-1,2-Dichloroethylene	27.4	1.0	ug/L	ND	68.5	51-145			
1,2-Dichloropropane	31.6	0.5	ug/L	ND	79.0	56-136			
cis-1,3-Dichloropropylene	33.2	0.4	ug/L	ND	83.1	54-141			
trans-1,3-Dichloropropylene	37.4	0.5	ug/L	ND	93.6	61-140			
Ethylbenzene	43.6	0.5	ug/L	ND	109	61-139			
Methylene Chloride	28.4	4.0	ug/L	ND	71.0	58-149			
Styrene	38.7	0.4	ug/L	ND	96.7	63-143			
1,1,1,2-Tetrachloroethane	41.0	0.5	ug/L	ND	102	61-148			
1,1,2,2-Tetrachloroethane	32.7	0.6	ug/L	ND	81.7	50-157			
Tetrachloroethylene	39.9	0.5	ug/L	ND	99.7	51-145			
Toluene	34.5	0.5	ug/L	ND	86.3	54-136			
1,1,1-Trichloroethane	36.3	0.4	ug/L	ND	90.8	55-140			
1,1,2-Trichloroethane	30.4	0.6	ug/L	ND	75.9	63-144			
Trichloroethylene	31.6	0.4	ug/L	ND	79.0	52-135			
Trichlorofluoromethane	32.7	1.0	ug/L	ND	81.7	37-155			
1,3,5-Trimethylbenzene	38.1	0.5	ug/L	ND	95.4	61-151			
Vinyl chloride	36.5	0.4	ug/L	ND	91.2	31-159			
m,p-Xylenes	81.0	0.5	ug/L	ND	101	61-139			
o-Xylene	43.5	0.5	ug/L	ND	109	60-142			
Surrogate: 4-Bromofluorobenzene	73.8		ug/L		92.3	83-134			
Surrogate: Dibromofluoromethane	74.2		ug/L		92.7	78-124			
Surrogate: Toluene-d8	74.8		ug/L		93.5	76-118			

Certificate of Analysis

Report Date: 13-Oct-2010

Client: Paterson Group Consulting Engineers

Order Date: 7-Oct-2010

Client PO: 9263

Project Description: PE1616

Sample and QC Qualifiers Notes

1- QR-05 : Duplicate RPDs higher than normally accepted. Remaining batch QA\QC was acceptable. May be sample effect.

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

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Reg. Drinking Water

Client Name: Paterson Group	Project Ref: PE 1616	Waterworks Name:	Page 1 of 1
Contact Name: Mark D'Arcy	Quote #	Waterworks Number:	Sample Taken by:
Address: 28 Concourse Gate, Unit 1 Ottawa ON	PO # 9263	Address:	Print Name: Tyler Robinson
Telephone: 613 226-7381	E-mail Address: mdarcy@patersongroup.ca	After hours Contact:	Signature: <i>[Signature]</i>
	Fax:	Public Health Unit:	TAT: [] 1-day [] 2-day [X] Reg.

Matrix Types: S-Soil/Sed. GW-Ground Water SW-Surface Water SS-Storm/Sanitary Sewer DW-Drinking Water RDW-Regulated Drinking Water P- Paint A-Air O-Other

Samples submitted under: (Indicate ONLY one)
 O. Reg 153 (511) Table ___ O. Reg 170/03 O. Reg 318/08 Private well
 CCME O. Reg 243/07 O. Reg 319/08 Other: _____
 Type of DW Sample: R = Raw; T = Treated; D = Distribution
 Location Types: S = Surface Water; G = Ground Water

Parcel Order Number		Matrix	Air Volume	Type of Sample	# of Containers	Sample Taken		Free / Combined Chlorine Residual mg/L	Required Analyses													
Sample ID / Location Name						Date	Time															
1	BH4-GW2	GW				Oct. 7	2010		X													
2	BH5-GW2	GW							X													
3	BH6-GW2	GW							X													
4	BH7-GW2	GW							X													
5																						
6																						
7																						
8																						
9																						
10																						

Comments: _____
 Preservation Verification: pH _____ Temperature _____
 Verified by: _____

Relinquished By (Print & Sign): **T. Robinson**
[Signature]
 Date/Time: **Oct. 7 2010**

Lab Use Only:
 Received By: *[Signature]*
 Driver/Depot: **J. K**
 Date/Time: **2:15 Oct. 7/10**
 Received at Lab: *[Signature]*
 Date/Time: **Oct 7/10**
 Verified By: *[Signature]*
 Date/Time: **Oct 7/10**

4:39pm
5:46pm

Certificate of Analysis

Paterson Group Consulting Engineers

28 Concourse Gate, Unit 1
Nepean, ON K2E 7T7

Attn: Mark D'Arcy

Client PO: 10238

Project: PE1616

Custody: 79891

Phone: (613) 226-7381

Fax: (613) 226-6344

Report Date: 8-Nov-2010

Order Date: 1-Nov-2010

Order #: 1045043

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1045043-01	BH8
1045043-02	BH9
1045043-03	BH10

Approved By:



Mark Foto, M.Sc. For Dale Robertson, BSc
Laboratory Director

Certificate of AnalysisClient: **Paterson Group Consulting Engineers**

Client PO: 10238

Project Description: PE1616

Report Date: 08-Nov-2010

Order Date: 1-Nov-2010

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
VOCs	EPA 624 - P&T GC-MS	3-Nov-10	5-Nov-10

Certificate of Analysis

Report Date: 08-Nov-2010

Client: Paterson Group Consulting Engineers

Order Date: 1-Nov-2010

Client PO: 10238

Project Description: PE1616

Client ID:	BH8	BH9	BH10	-
Sample Date:	01-Nov-10	01-Nov-10	01-Nov-10	-
Sample ID:	1045043-01	1045043-02	1045043-03	-
MDL/Units	Water	Water	Water	-

Volatiles

Benzene	0.5 ug/L	<0.5	<0.5	<0.5	-
Bromodichloromethane	0.4 ug/L	0.8	<0.4	<0.4	-
Bromoform	0.5 ug/L	<0.5	<0.5	<0.5	-
Bromomethane	0.7 ug/L	<0.7	<0.7	<0.7	-
Carbon Tetrachloride	0.5 ug/L	<0.5	<0.5	<0.5	-
Chlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
Chloroethane	1.0 ug/L	<1.0	<1.0	<1.0	-
Chloroform	0.5 ug/L	5.0	3.2	<0.5	-
Chloromethane	3.0 ug/L	<3.0	<3.0	<3.0	-
Dibromochloromethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,2-Dibromoethane	1.0 ug/L	<1.0	<1.0	<1.0	-
1,2-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,3-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,4-Dichlorobenzene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1-Dichloroethane	0.5 ug/L	<0.5	5.2	<0.5	-
1,2-Dichloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,1-Dichloroethylene	0.5 ug/L	1.4	6.4	<0.5	-
cis-1,2-Dichloroethylene	0.4 ug/L	2.8	89.6	<0.4	-
trans-1,2-Dichloroethylene	1.0 ug/L	<1.0	<1.0	<1.0	-
1,2-Dichloroethylene, total	1.4 ug/L	2.8	89.9	<1.4	-
1,2-Dichloropropane	0.5 ug/L	<0.5	<0.5	<0.5	-
cis-1,3-Dichloropropylene	0.4 ug/L	<0.4	<0.4	<0.4	-
trans-1,3-Dichloropropylene	0.5 ug/L	<0.5	<0.5	<0.5	-
1,3-Dichloropropene, total	0.9 ug/L	<0.9	<0.9	<0.9	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	<0.5	-
Methylene Chloride	4.0 ug/L	<4.0	<4.0	<4.0	-
Styrene	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1,1,2-Tetrachloroethane	0.5 ug/L	<0.5	<0.5	<0.5	-
1,1,1,2,2-Tetrachloroethane	0.6 ug/L	<0.6	<0.6	<0.6	-
Tetrachloroethylene	0.5 ug/L	239	2340	<0.5	-
Toluene	0.5 ug/L	4.0	<0.5	<0.5	-
1,1,1-Trichloroethane	0.4 ug/L	<0.4	<0.4	<0.4	-
1,1,2-Trichloroethane	0.6 ug/L	<0.6	<0.6	<0.6	-

Certificate of Analysis

Report Date: 08-Nov-2010

Client: Paterson Group Consulting Engineers

Order Date: 1-Nov-2010

Client PO: 10238

Project Description: PE1616

	MDL/Units	Client ID:	BH8	BH9	BH10	
		Sample Date:	01-Nov-10	01-Nov-10	01-Nov-10	-
		Sample ID:	1045043-01	1045043-02	1045043-03	-
			Water	Water	Water	-
Trichloroethylene	0.4 ug/L		47.6	389	<0.4	-
Trichlorofluoromethane	1.0 ug/L		<1.0	<1.0	<1.0	-
1,3,5-Trimethylbenzene	0.5 ug/L		<0.5	<0.5	<0.5	-
Vinyl chloride	0.4 ug/L		0.6	4.0	<0.4	-
m,p-Xylenes	0.5 ug/L		<0.5	<0.5	<0.5	-
o-Xylene	0.5 ug/L		<0.5	<0.5	<0.5	-
Xylenes, total	1.0 ug/L		<1.0	<1.0	<1.0	-
4-Bromofluorobenzene	Surrogate		98.1%	100%	96.2%	-
Dibromofluoromethane	Surrogate		100%	98.6%	101%	-
Toluene-d8	Surrogate		96.7%	99.4%	97.4%	-

Certificate of Analysis

Report Date: 08-Nov-2010

Client: Paterson Group Consulting Engineers

Order Date: 1-Nov-2010

Client PO: 10238

Project Description: PE1616

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L						
Bromodichloromethane	ND	0.4	ug/L						
Bromoform	ND	0.5	ug/L						
Bromomethane	ND	0.7	ug/L						
Carbon Tetrachloride	ND	0.5	ug/L						
Chlorobenzene	ND	0.4	ug/L						
Chloroethane	ND	1.0	ug/L						
Chloroform	ND	0.5	ug/L						
Chloromethane	ND	3.0	ug/L						
Dibromochloromethane	ND	0.5	ug/L						
1,2-Dibromoethane	ND	1.0	ug/L						
1,2-Dichlorobenzene	ND	0.4	ug/L						
1,3-Dichlorobenzene	ND	0.4	ug/L						
1,4-Dichlorobenzene	ND	0.4	ug/L						
1,1-Dichloroethane	ND	0.5	ug/L						
1,2-Dichloroethane	ND	0.5	ug/L						
1,1-Dichloroethylene	ND	0.5	ug/L						
cis-1,2-Dichloroethylene	ND	0.4	ug/L						
trans-1,2-Dichloroethylene	ND	1.0	ug/L						
1,2-Dichloroethylene, total	ND	1.4	ug/L						
1,2-Dichloropropane	ND	0.5	ug/L						
cis-1,3-Dichloropropylene	ND	0.4	ug/L						
trans-1,3-Dichloropropylene	ND	0.5	ug/L						
1,3-Dichloropropene, total	ND	0.9	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Methylene Chloride	ND	4.0	ug/L						
Styrene	ND	0.4	ug/L						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L						
1,1,1,2,2-Tetrachloroethane	ND	0.6	ug/L						
Tetrachloroethylene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
1,1,1-Trichloroethane	ND	0.4	ug/L						
1,1,2-Trichloroethane	ND	0.6	ug/L						
Trichloroethylene	ND	0.4	ug/L						
Trichlorofluoromethane	ND	1.0	ug/L						
1,3,5-Trimethylbenzene	ND	0.5	ug/L						
Vinyl chloride	ND	0.4	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	1.0	ug/L						
Surrogate: 4-Bromofluorobenzene	77.8		ug/L		97.2	83-134			
Surrogate: Dibromofluoromethane	80.0		ug/L		100	78-124			
Surrogate: Toluene-d8	79.7		ug/L		99.6	76-118			

Certificate of Analysis

Report Date: 08-Nov-2010

Client: Paterson Group Consulting Engineers

Order Date: 1-Nov-2010

Client PO: 10238

Project Description: PE1616

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	ND	0.5	ug/L	ND				20	
Bromodichloromethane	ND	0.4	ug/L	ND				25	
Bromoform	ND	0.5	ug/L	ND				25	
Bromomethane	ND	0.7	ug/L	ND				25	
Carbon Tetrachloride	ND	0.5	ug/L	ND				25	
Chlorobenzene	ND	0.4	ug/L	ND				25	
Chloroethane	ND	1.0	ug/L	ND				25	
Chloroform	ND	0.5	ug/L	ND				19	
Chloromethane	ND	3.0	ug/L	ND				25	
Dibromochloromethane	ND	0.5	ug/L	ND				25	
1,2-Dibromoethane	ND	1.0	ug/L	ND				25	
1,2-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,3-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,4-Dichlorobenzene	ND	0.4	ug/L	ND				25	
1,1-Dichloroethane	ND	0.5	ug/L	ND				21	
1,2-Dichloroethane	ND	0.5	ug/L	ND				25	
1,1-Dichloroethylene	ND	0.5	ug/L	ND				21	
cis-1,2-Dichloroethylene	ND	0.4	ug/L	ND				20	
trans-1,2-Dichloroethylene	ND	1.0	ug/L	ND				25	
1,2-Dichloropropane	ND	0.5	ug/L	ND				25	
cis-1,3-Dichloropropylene	ND	0.4	ug/L	ND				25	
trans-1,3-Dichloropropylene	ND	0.5	ug/L	ND				25	
Ethylbenzene	ND	0.5	ug/L	ND				35	
Methylene Chloride	ND	4.0	ug/L	ND				25	
Styrene	ND	0.4	ug/L	ND				25	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	ND				25	
1,1,2,2-Tetrachloroethane	ND	0.6	ug/L	ND				25	
Tetrachloroethylene	ND	0.5	ug/L	ND				31	
Toluene	ND	0.5	ug/L	ND				30	
1,1,1-Trichloroethane	ND	0.4	ug/L	ND				25	
1,1,2-Trichloroethane	ND	0.6	ug/L	ND				25	
Trichloroethylene	ND	0.4	ug/L	ND				30	
Trichlorofluoromethane	ND	1.0	ug/L	ND				25	
1,3,5-Trimethylbenzene	ND	0.5	ug/L	ND				20	
Vinyl chloride	ND	0.4	ug/L	ND				25	
m,p-Xylenes	ND	0.5	ug/L	ND				34	
o-Xylene	ND	0.5	ug/L	ND				32	
Surrogate: 4-Bromofluorobenzene	86.9		ug/L	ND	109	83-134			
Surrogate: Dibromofluoromethane	75.6		ug/L	ND	94.5	78-124			
Surrogate: Toluene-d8	79.1		ug/L	ND	98.8	76-118			

Certificate of Analysis

Report Date: 08-Nov-2010

Client: Paterson Group Consulting Engineers

Order Date: 1-Nov-2010

Client PO: 10238

Project Description: PE1616

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Volatiles									
Benzene	34.4	0.5	ug/L	ND	85.9	55-141			
Bromodichloromethane	34.0	0.4	ug/L	ND	85.0	52-139			
Bromoform	51.2	0.5	ug/L	ND	128	52-170			
Bromomethane	16.0	0.7	ug/L	ND	39.9	32-138			
Carbon Tetrachloride	30.9	0.5	ug/L	ND	77.2	49-149			
Chlorobenzene	38.5	0.4	ug/L	ND	96.3	64-137			
Chloroethane	22.9	1.0	ug/L	ND	57.2	39-152			
Chloroform	34.0	0.5	ug/L	ND	85.0	58-138			
Chloromethane	21.8	3.0	ug/L	ND	54.5	24-163			
Dibromochloromethane	46.2	0.5	ug/L	ND	116	61-153			
1,2-Dibromoethane	51.0	1.0	ug/L	ND	127	61-145			
1,2-Dichlorobenzene	36.4	0.4	ug/L	ND	91.0	60-150			
1,3-Dichlorobenzene	44.5	0.4	ug/L	ND	111	62-149			
1,4-Dichlorobenzene	43.4	0.4	ug/L	ND	108	63-132			
1,1-Dichloroethane	34.1	0.5	ug/L	ND	85.4	51-156			
1,2-Dichloroethane	32.2	0.5	ug/L	ND	80.6	50-140			
1,1-Dichloroethylene	29.4	0.5	ug/L	ND	73.6	43-153			
cis-1,2-Dichloroethylene	37.4	0.4	ug/L	ND	93.4	58-145			
trans-1,2-Dichloroethylene	36.8	1.0	ug/L	ND	92.1	51-145			
1,2-Dichloropropane	34.4	0.5	ug/L	ND	85.9	56-136			
cis-1,3-Dichloropropylene	35.1	0.4	ug/L	ND	87.8	54-141			
trans-1,3-Dichloropropylene	42.8	0.5	ug/L	ND	107	61-140			
Ethylbenzene	45.2	0.5	ug/L	ND	113	61-139			
Methylene Chloride	31.3	4.0	ug/L	ND	78.2	58-149			
Styrene	46.7	0.4	ug/L	ND	117	63-143			
1,1,1,2-Tetrachloroethane	41.4	0.5	ug/L	ND	104	61-148			
1,1,2,2-Tetrachloroethane	36.2	0.6	ug/L	ND	90.6	50-157			
Tetrachloroethylene	42.6	0.5	ug/L	ND	107	51-145			
Toluene	35.4	0.5	ug/L	ND	88.5	54-136			
1,1,1-Trichloroethane	31.7	0.4	ug/L	ND	79.3	55-140			
1,1,2-Trichloroethane	41.0	0.6	ug/L	ND	102	63-144			
Trichloroethylene	35.2	0.4	ug/L	ND	87.9	52-135			
Trichlorofluoromethane	27.3	1.0	ug/L	ND	68.2	37-155			
1,3,5-Trimethylbenzene	31.8	0.5	ug/L	ND	79.4	61-151			
Vinyl chloride	24.0	0.4	ug/L	ND	59.9	31-159			
m,p-Xylenes	88.3	0.5	ug/L	ND	110	61-139			
o-Xylene	44.6	0.5	ug/L	ND	111	60-142			
Surrogate: 4-Bromofluorobenzene	77.5		ug/L		96.8	83-134			
Surrogate: Dibromofluoromethane	76.4		ug/L		95.5	78-124			
Surrogate: Toluene-d8	73.7		ug/L		92.2	76-118			

Certificate of Analysis

Client: Paterson Group Consulting Engineers

Client PO: 10238

Project Description: PE1616

Report Date: 08-Nov-2010

Order Date: 1-Nov-2010

Sample and QC Qualifiers Notes

None

Sample Data Revisions

None

Work Order Revisions/Comments:

None

Other Report Notes:

n/a: not applicable

MDL: Method Detection Limit

Source Result: Data used as source for matrix and duplicate samples

%REC: Percent recovery.

RPD: Relative percent difference.

OTTAWA • NIAGARA FALLS • MISSISSAUGA • SARNIA

Client Name: PATERSON GROUP	Project Ref: PE 1616	Waterworks Name:	Page <u>1</u> of <u>1</u>
Contact Name: MARK D'ARCY	Quote #	Waterworks Number:	
Address: 28 CONCORSE GATE UNIT 1 OTTAWA, ON K2E 7T7	PO # 10238	Address:	Sample Taken by:
	E-mail Address: mdarcy@patersongroup.ca	After hours Contact:	Print Name: DAN ARNOTT
Telephone: 613. 226. 7381	Fax:	Public Health Unit:	Signature: 
			TAT: [] 1-day [] 2-day [X] Reg.

Matrix Types: S-Soil/Sed. GW-Ground Water SW-Surface Water SS-Storm/Sanitary Sewer DW-Drinking Water RDW-Regulated Drinking Water P- Paint A-Air O-Other

Samples submitted under: (Indicate **ONLY** one)
 O. Reg 153 (511) Table ___ O. Reg 170/03 O. Reg 318/08 Private well
 CCME ___ O. Reg 243/07 O. Reg 319/08 Other: _____

Type of DW Sample: R = Raw; T = Treated; D = Distribution
 Location Types: S = Surface Water; G = Ground Water

Required Analyses

Parcel Order Number		Matrix	Air Volume	Type of Sample	# of Containers	Sample Taken		Free / Combined Chlorine Residual mg/L	VOCs									
Sample ID / Location Name						Date	Time											
1	BH8	GW			2	1-NOV-2010	9:00 am		✓									
2	BH9	GW			2	1-NOV-2010	9:20 am		✓									
3	BH10	GW			2	1-NOV-2010	9:40 am		✓									
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments: **J.K.**

Relinquished By (Print & Sign): **NOV 11/10**

Date/Time: **12:30**

Preservation Verification: pH _____ Temperature _____
 Verified by: _____

Lab Use Only:

Received By/Driver/Depot: **J.K.**
 Date/Time: **NOV 11/10**

Received at Lab: **J.K.**
 Date/Time: **NOV 11/10**

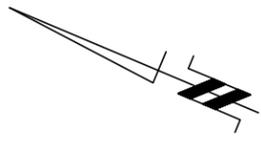
Verified By: **J.K.**
 Date/Time: **NOV 11/10**

3:52p

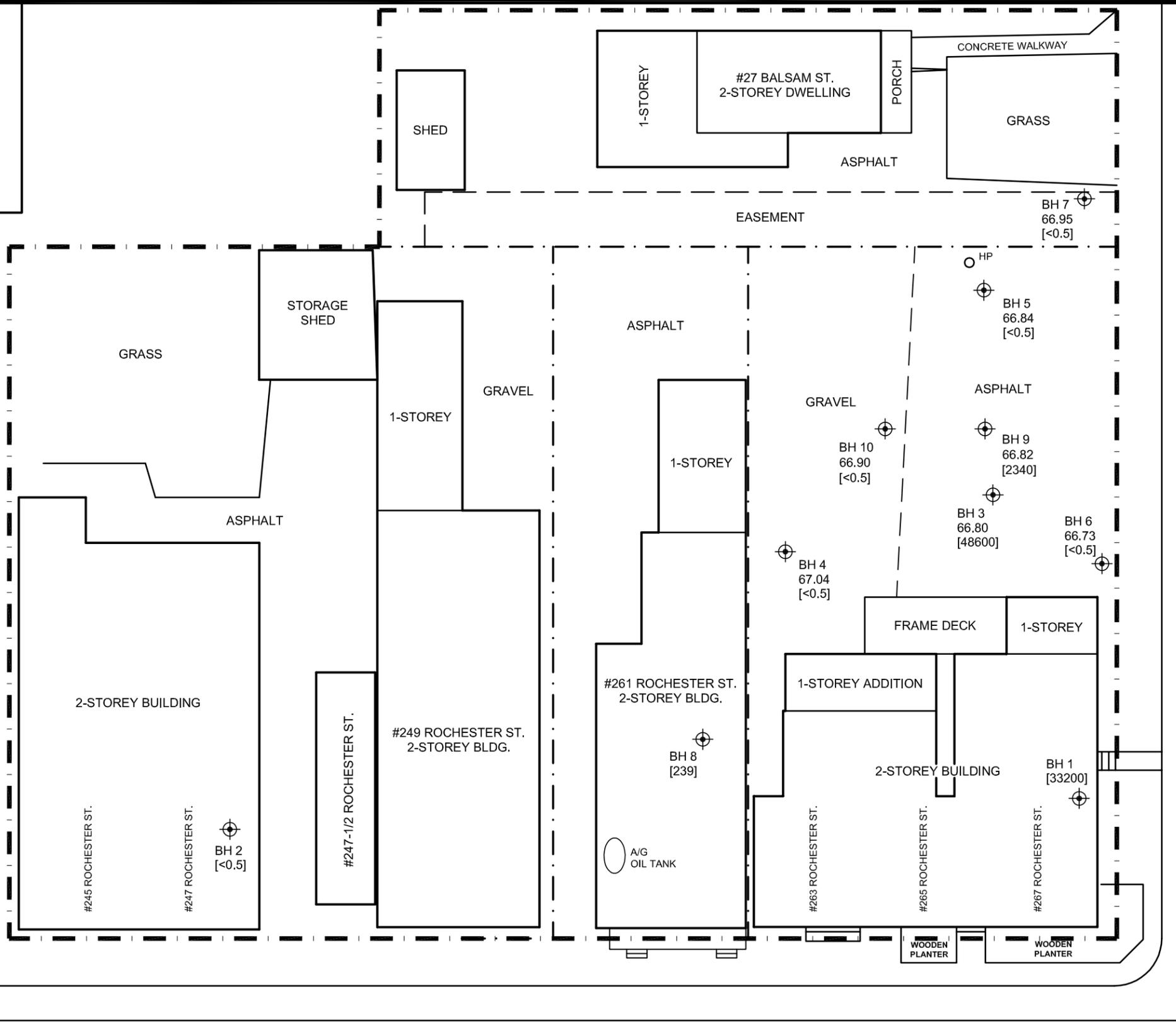
LEGEND:

-  BOREHOLE LOCATION WITH MONITORING WELL
- 100.06 GROUND SURFACE ELEVATION (m)
- [39.1] PCE CONCENTRATION (ug/L)

TBM - CROSS CUT IN SIDEWALK, GEODETIC ELEVATION = 66.72m TAKEN FROM ANNIS, O'SULLIVAN, VOLLEBEKK LTD. SURVEY PLAN.



RESIDENTIAL / COMMERCIAL



BALSAM STREET

SITE BENCHMARK CUT CROSS IN SIDEWALK

RESIDENTIAL

ROCHESTER STREET

paterson group
 consulting engineers
 28 Concourse Gate, Unit 1, Ottawa, Ontario K2E 7T7

Scale: 1:200
 Des.: MSD
 Dwn: DJA
 Chkd: MSD

FANTO GROUP
 PHASE II ENVIRONMENTAL SITE ASSESSMENT
 245, 247, 249, 261, 263-267 ROCHESTER ST. & 27 BALSAM ST.
 OTTAWA, ONTARIO

TEST HOLE LOCATION PLAN

Dwg. No. **PE1616-6**
 Report No.: PE1616-LET.01
 Date: 04/2011



308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8
Canada

613-548-3446
www.malroz.com

via: email

December 16, 2019
File: 917-110.01

Richard Barker
Advisor, Environmental Remediation
Environmental Remediation Unit
City of Ottawa
richard.barker@ottawa.ca

Subject: Supplementary Assessment of Soil Vapour
Rochester Street Right of Way, Ottawa, Ontario

Dear Mr. Barker:

Malroz Engineering Inc. (Malroz) was retained by the City of Ottawa (the City) to conduct a soil vapour assessment at previously sampled locations within the Rochester Street right of way (ROW), between the intersection of Balsam Street and Willow Street in Ottawa, Ontario (the subject site).

The objective of this work was to continue to evaluate potential risks/impacts related to a chlorinated volatile organic compound (cVOC) groundwater plume inferred to emanate from an upgradient property.

This letter summarizes methodologies, results and conclusions arising from the soil vapour sampling program.

1.0 Background

An inferred chlorinated solvent contaminant plume along the Rochester Street ROW was identified by Malroz in our Remedial Options Assessment letter, dated May 12, 2015. The letter included a review of data collected by others, from a group of properties near the intersection of Rochester and Balsam Street (the source site). The source site was reportedly impacted by historic dry-cleaning operations and was proposed to be developed into condominiums. The data suggested that a groundwater contaminant plume comprising of toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform has migrated into the Rochester and Balsam Street ROWs, owned by the City, however, limited data was provided on the groundwater flow direction and quality.

In 2017, GHD completed Phase 1 and 2 Environmental Site Assessments (ESAs) of a property owned by the Ottawa Community Housing Corporation (OCHC), located south of the source site on Balsam Street. The GHD groundwater flow direction was reportedly west-northwest, supporting the conceptual understanding that the Rochester Street ROW

is downgradient of the source site and may be impacted by the chlorinated solvent plume. This work did not identify groundwater impacts associated with the dry-cleaning contaminant plume on the OCHC property.

Malroz conducted a preliminary soil vapour assessment at the subject site in May, 2018¹ (Event #1). Four soil vapour probes (SVPs) were installed along the Rochester Street ROW and soil vapour samples were collected at each SVP. Results from the sampling indicated that measurable concentrations of toluene, chloroform, methylene chloride, PCE, and TCE were reported at one or more of the soil vapour points. However, reported concentrations of these contaminants were below calculated maximum acceptable vapour intrusion target levels (VITLs) for residential property use. Considering the variability of soil vapour data, additional sampling was recommended to confirm the results from the preliminary soil vapour assessment.

Malroz completed two additional soil vapour sampling events at the subject site in April (Event #2) and July, 2019 (Event #3)². During each event, soil vapour samples were collected from the four previously installed SVPs. Results from Event #2 indicated that measurable concentrations of PCE were reported at each of the SVPs, and were below VITLs. However, concentrations of PCE at SVP102 were only slightly below (3-12 $\mu\text{g}/\text{m}^3$) the corresponding VITL. Results from Event #3 indicated that concentrations of PCE at SVP102 and SVP103 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP104, however, the measured concentrations met the VITL. Given the exceedances of VITLs at SVP102 and SVP103 during Event #3, an additional sampling event was recommended in the fall of 2019 to confirm the results and to further assess seasonal and temporal variability.

2.0 Methodology

Malroz undertook additional soil vapour sampling in accordance with our proposal dated October 11, 2019. The proposal comprised the following activities:

- Collect one soil vapour sample from each of the previously installed SVPs and monitor accessible manholes and catch basins during the fall of 2019 (Event #4).
- Collect one duplicate sample for quality assurance and control purposes.

A brief summary of the soil vapour sampling methodology and QA/QC program are provided in the subsections which follow.

¹ Malroz Engineering Inc. (2018, September 6). *Preliminary Soil Vapour Assessment, Rochester Street Right of Way, Ottawa, Ontario*. Prepared for the City of Ottawa. File No. 917-104.00.

² Malroz Engineering Inc. (2019, September 7). *Additional Assessment of Soil Vapour, Rochester Street Right of Way Ottawa, Ontario*. Prepared for the City of Ottawa. File No. 917-108.01.

2.1 Soil Vapour Sampling Event #4

Soil vapour samples were collected from previously installed SVPs (see Figure 1, attached) on October 30, 2019. Soil vapour sampling methods were consistent with those described by Malroz in two previous soil vapour assessment reports^{1,2}. Samples were submitted to Bureau Veritas Laboratories (BV) for analyses of the following contaminants of concern (COC) using United States Environmental Protection Agency (USEPA) Method TO-15:

- Chloroform
- Chloroethane
- Methylene Chloride (Dichloromethane)
- Toluene
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- 1, 1 - Dichloroethylene
- 1, 2 - Dichloroethylene
- Vinyl chloride

Prior to sampling, a GilAir pump was used to draw soil vapours into a Tedlar bag inside a lung box at each sample location. The soil vapours inside the bag were measured for combustible and organic vapours using an RKI Eagle 2 with a combustible gas indicator (CGI) and photoionization detector (PID) as a screening level assessment.

Consistent with past practice, Malroz recorded weather conditions and sample canister pressures (see Tables 1 and 2, attached).

2.2 QA/QC Program

A laboratory and field quality assurance and quality control (QA/QC) program was undertaken to assist in informing whether the soil vapour analytical data were interpretable, meaningful, and reproducible. The QA/QC program for Event #4 was consistent with the approach described in two previous soil vapour assessment reports prepared by Malroz^{1,2}. A duplicate sample was collected at SVP102 during Event #4.

3.0 Site Evaluation Screening Criteria

Soil vapour standards are not published by the Ministry of Environment, Conservation and Parks (MECP), however, appropriate screening criteria for evaluating the vapour intrusion pathway may be derived using the methods described by the MECP^{3,4}. These documents prescribe a generic approach for evaluating the vapour intrusion pathway and include published acceptable human health-based indoor air concentrations (HBIACs) which have been calculated using toxicity reference values and specific exposure scenarios based on property use.

³ Ministry of Environment, Conservation and Parks (April, 2011). *Rationale for the Development of Soil and Ground Water Standards for use at Contaminated Sites in Ontario*.

⁴ Ministry of Environment, Conservation and Parks (September, 2013). *Draft Technical Guidance: Soil Vapour Intrusion Assessment*.

HBIACs were referenced from the MECP's *Modified Generic Risk Assessment "Approved Model"* (last updated November 1, 2016), the currently available MECP model.

VITLs are derived from HBIACs by applying an attenuation factor that accounts for various attenuation parameters (e.g. air exchange, migration through a concrete floor slab, and dilution). The VITLs represent sub-slab vapour concentrations that may be expected to cause unacceptable indoor air concentrations via the vapour intrusion pathway. Soil vapour data collected in the course of our investigation is evaluated against VITLs.

Malroz calculated VITLs by dividing the HBIACs by an attenuation factor of 0.02. The selected HBIACs and attenuation factors are applicable for assessment of risk associated with residential property use.

4.0 Results

The subsections that follow summarize the results of soil vapour sampling conducted on October 30, 2019 (Event #4).

4.1 Soil Vapour Sampling

Weather data recorded prior to sampling is provided in Table 1. Silonite canister pressures recorded by Malroz prior to and following sampling, and recorded by BV prior to analyses are provided in Table 2. BV reported that pressures indicated residual vacuum remained at the completion of the sampling period and suggest that the samples were not compromised during transportation to the laboratory.

Field screening of combustible and organic vapours from a Tedlar bag, recorded prior to soil vapour sampling, and from accessible nearby catch basins, are provided in Table 3. Screening concentrations of measurable combustible gas (full gas response) were observed between 10 and 70 ppm at SVPs. An organic vapour concentration of 1 ppm was recorded at SVP101, while concentrations were below the detectable range of the instrument at other SVPs.

Combustible and organic vapours were generally observed to be below the measurable range of the instrument at catch basins and manholes, with the exception of catch basins CB1 and CB8 (Figure 1, attached) where relatively low concentrations (5-15 ppm) of combustible vapours were measured.

Results of laboratory analyses from sampling Event #4 are summarized in Table 4 (attached). Reported concentrations of PCE at SVP102 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP103, however, the measured concentrations met the VITL. PCE was not detected at SVP104.

Measurable concentrations of chloroform, toluene, and TCE were detected in one or more of the SVPs at concentrations below the corresponding VITLs. Concentrations of the other analyzed COCs were reported below the laboratory detection limits and VITLs.

4.2 QA/QC Results

A duplicate sample was collected at SVP102 for QA/QC purposes. Results of laboratory analyses of the duplicate sample indicated reasonable repeatability. Based on these results and the laboratory QA/QC, we are of the opinion that the results of the analyses can be relied upon.

5.0 Discussion and Recommendations

Results of laboratory analyses of soil vapour samples collected during the sampling event (Event #4) indicate that concentrations of PCE were more than 3 times greater than the VITL at SVP102. PCE concentrations at SVP101 and SVP103 were approximately 1/3 to 1/2 of the VITLs during Event #4, while PCE concentrations were below the laboratory reportable detection limits at SVP104.

Concentrations of PCE have varied significantly over four soil vapour sampling events (Table 5, attached). The highest measured PCE concentrations at SVP101, SVP102, and SVP103 occurred during Event #3 (July, 2019), where PCE concentrations were more than 13 times the VITL for PCE at SVP102 and more than 3 times the VITL for PCE at SVP103. The temporal variability of PCE concentrations at the four SVPs may reflect seasonal variation or other factors not yet identified.

The MECP provides a decision framework for recommended actions for vapour intrusion assessment based on measured concentrations of COCs and site screening levels (see Table 4 in MECP, 2013)³. In this framework, if measured concentrations of COCs in soil/sub-slab vapours are between 0.5 and 5 times greater than the corresponding screening level, consideration of additional subsurface characterization and/or a more direct assessment of potential indoor air impacts is recommended. If measured concentrations of COCs are greater than 5 times the corresponding screening level, the MECP recommends assessment of potential indoor air impacts and/or pre-emptive exposure controls.

Based on the results of soil vapour sampling Event #4, and with consideration to concentration trends of PCE in soil vapour over time, there is a potential risk to human health via the soil vapour intrusion pathway that may result in potential degradation of residential indoor air quality.

Soil vapour composition can be significantly influenced by climatic/seasonal variables (e.g. precipitation, temperature, barometric pressure, snow cover), temporal variability and variations in the water table. Sub-slab vapour and indoor air conditions at buildings adjacent to the Rochester Street ROW are unknown. Additional soil vapour sampling at other locations on the subject site and an assessment of sub-slab vapour and/or indoor air at buildings adjacent to the subject site would be required to further characterize vapour intrusion risks to human health.

Soil vapour data are limited to four locations in the Rochester Street ROW. There remains a possibility that the data from the four soil vapour sampling events do not represent worst-case conditions. Groundwater impacts identified by others at the source site and the subject site have not been fully delineated or characterized, therefore, the

magnitude and extent of the contaminant plume remains unknown. Lateral and vertical delineation of the contaminant plume is necessary to fully evaluate vapour intrusion risks.

Given the foregoing uncertainties, and the natural variability of soil vapour data, we offer the following recommendations for consideration:

- Install sub-slab vapour probes in select buildings adjacent to the subject site to further assess the vapour intrusion pathway and representativeness of the soil vapour data.
- Sample indoor air within the residential units of select buildings adjacent to the subject site to more directly assess potential human health risks associated with elevated soil vapour concentrations of COCs.
- Laterally and vertically delineate groundwater impacts to evaluate the extent, magnitude and stability of the contaminant plume.

6.0 Closure and Limitations

The findings reported in this document are based on the tasks completed by Malroz under the mutually agreed scope of work as a soil vapour sampling investigation. Professional judgement, experience with similar investigations, and available data collected within the scope of work, form the basis for this letter. Malroz has prepared this letter using information understood to be factual and correct, and shall not be responsible for conditions arising from information or facts that were inaccurate, concealed, or not fully disclosed at the time of investigation.

This document has been prepared by Malroz for the sole use of the City of Ottawa in assessing the soil vapour conditions in the Rochester Street ROW, Ottawa, Ontario. Unauthorized reuse of this document for any purpose, or by third parties, without the express written consent of Malroz, shall be at such party's sole risk without liability to Malroz. Malroz accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions taken based on this report.

We appreciate the opportunity to work with you on this project and remain available to discuss our work, reported herein, with you.

Please contact the undersigned if you have any questions, comments, or concerns with respect to this document or the appended data.

Respectfully Submitted,

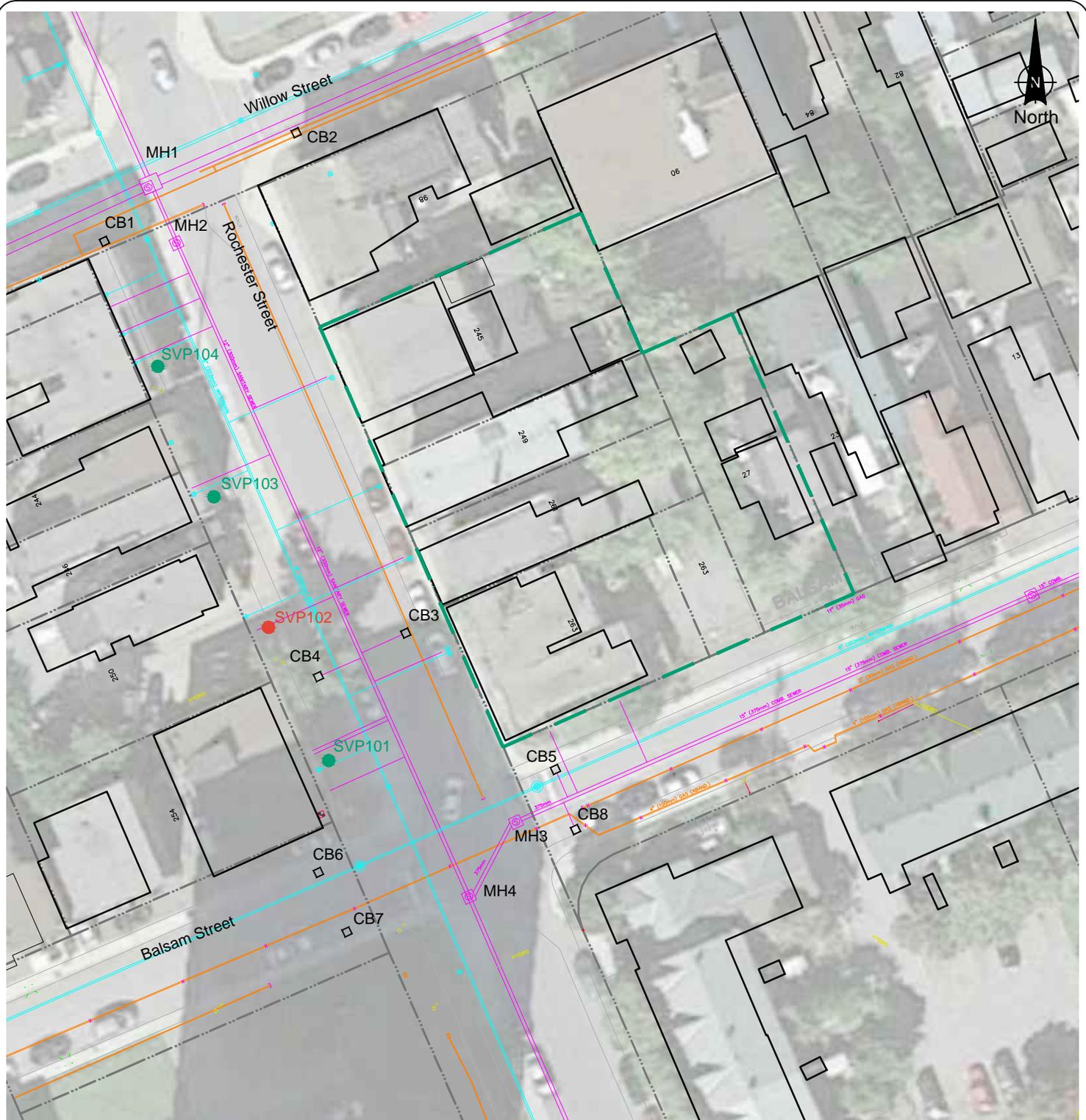
Malroz Engineering Inc.


per: Robert Varcoe, G.I.T.
Environmental Scientist


reviewed: David Carnegie, P. Eng.
Project Manager



- encl:
- Figure 1 Site Plan and Soil Vapour Analytical Results
 - Table 1 Site Specific Weather Data
 - Table 2 Sampling Canister Pressures
 - Table 3 Soil Vapour and Catch Basin Monitoring Results
 - Table 4 Soil Vapour Analytical Results (October 30, 2019)
 - Table 5 Historical Soil Vapour Analytical Results
- Laboratory Certificates of Analyses



Legend

- - - approximate property line
- - - proposed condominium development (source site)
- ▭ building footprint
- water main
- sewer main
- gas line
- CB1 catch basin
- ⊗ MH1 manhole
- SV1 soil vapour probe location meets Residential VITLs
- SV1 soil vapour probe location exceeds Residential VITLs

Note: Figure based on Google Earth imagery, Malroz field observations, existing reports and utilities drawings supplied by The City of Ottawa.

Site Plan and Soil Vapour Analytical Results (October 30, 2019)

Supplementary Assessment of Soil Vapour
Rochester Street ROW
Ottawa, ON

R0	2019/11/16	issued in final	ZL	RV
Rev	Date	Description	By	Chkd

File: 917-110.00

approx. scale (m)

Figure
1



**Table 1
Site Specific Weather Data**

Environment Canada ¹			Field Observations ²				
Average Atmospheric Pressure (kPa)	Total Precipitation (mm)	Humidity - Outdoor (%)	Location	Outdoor Ambient Air Pressure (kPa)	Air Temperature (°C)	Wind Speed (m/s)	Wind Direction
October 30, 2019							
101.28	5.2	83	SVP101	101.73	12.6	1.1	E
			SVP102	101.73	12.6	0.9	E
			SVP103	101.79	12.6	0.9	E
			SVP104	101.79	12.8	0.8	E

Notes:

kPa kilopascals

m/s meters per second

¹ data obtained from Environment Canada Ottawa RCS weather station

² data obtained from site measurements using a hand held Kestrel weather station

SVP### denotes soil vapour probe location

Data Input: RV

Data Check: ZL

**Table 2
Sampling Canister Pressures**

Sample ID	Canister Pressure at Start of Sampling		Canister Pressure at End of Sampling		Canister Pressure at Lab	
	in. Hg	kPa	in. Hg	kPa	in. Hg	kPa
October 30, 2019						
19-SV11	-27.0	-91.4	-3.5	-11.9	-2.2	-7.5
19-SV12	-26.8	-90.8	-2.9	-9.8	-1.4	-4.7
19-SV13	-26.5	-89.7	-4.2	-14.2	-2.5	-8.5
19-SV14	-26.0	-88.0	-3.9	-13.2	-2.3	-7.8
19-SV15	-27.4	-92.8	-4.1	-13.9	-2.5	-8.5

Notes:

in. Hg inches of mercury

kPa kilopascals

Data Input: RV

Data Check: ZL

Table 3
Soil Vapour and Catch Basin Monitoring Results

Location	CGI Full Gas Response (ppm)	CGI Methane Eliminated (ppm)	PID (ppm)
October 30, 2019			
SVP101	45	-	1
SVP102	70	-	nr
SVP103	10	-	nr
SVP104	55	-	nr
CB1	15	-	nr
CB2	nr	-	nr
CB3	nr	-	nr
CB4	nr	-	nr
CB5	nr	-	nr
CB6	nr	-	nr
CB7	nr	-	nr
CB8	5	-	nr
MH1	nr	-	nr
MH2	nr	-	nr
MH3	nr	-	nr
MH4	nr	-	nr

Notes:

nr no measurable response was detected
 - not analyzed when full gas response is less than 1% of LEL.

ppm parts per million

SVP### denotes soil vapour probe location

CB catch basin

MH manhole

Data Input: RV

Data Check: ZL

**Table 4
 Soil Vapour Analytical Results**

Parameter	Location		SVP101	SVP102	SVP103	SVP104	QA/QC	Maximum Acceptable VITLs - Residential ¹
	Sample ID	Date Sampled	19-SV15	19-SV13	19-SV12	19-SV11	19-SV14	
	Units	RDL	30-Oct-19	30-Oct-19	30-Oct-19	30-Oct-19	30-Oct-19	
Volatile Organic Compounds								
Chloroform	µg/m ³	0.488	1.44	<	<	<	<	1040
Chloroethane	µg/m ³	0.792	<	<	<	<	<	
Dichloroethylene, 1,1-	µg/m ³	0.396	<	<	<	<	<	730
Dichloroethylene, 1,2-cis-	µg/m ³	0.396	<	<	<	<	<	1560
Dichloroethylene, 1,2-trans-	µg/m ³	0.396	<	<	<	<	<	626
Methylene Chloride	µg/m ³	2.08	<	<	<	<	<	2420
Tetrachloroethylene	µg/m ³	0.678	68.8	783	103	<	794	214
Toluene	µg/m ³	0.377	<	2.14	<	0.613	3.86	52100
Trichloroethylene	µg/m ³	0.537	0.707	<	<	<	<	13.6
Vinyl Chloride	µg/m ³	0.256	<	<	<	<	<	6.32

Notes: SVP### soil vapour probe location
 19-SV## sample ID
 RDL reportable detection limit
 < result below reportable detection limit
 < # elevated RDL
 1 calculated based on an attenuation factor of 0.02 and MECP's 2011 Modified Generic Risk Assessment "Approved Model" (last updated November 1st, 2016) indoor air criteria for indoor use
Red, bold and underline indicates value exceeds the maximum acceptable vapour intrusion target levels (VITLs) calculated from the Residential, Lowest-Risk Level Health-Based Indoor Air Criteria from Modified Generic Risk Assessment "Approved Model", MECP, 2011 (last updated November 1, 2016)

Data Input: RV
 Data Check: ZL

**Table 5
Historical Soil Vapour Analytical Results**

Soil Vapour Probe		Parameter (µg/m ³)									
		Chloroform	Chloroethane	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Methylene Chloride	Tetrachloroethylene	Toluene	Trichloroethylene	Vinyl Chloride
Reference Criteria	Maximum Acceptable VITLs - Residential ¹	1040		730	1560	626	2420	214	52100	13.6	6.32
RDL		0.488	0.792	0.396	0.396	0.396	2.08	0.678	0.377	0.537	0.256
Sample ID	Date	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
SVP101											
18-SV005	May 2, 2018	2.96	<	<	<	<	<2.78	75.8	142	<	<
19-SV05	April 4, 2019	<	<	<	<	<	<	14.0	1.41	<	<
19-SV10	July 24, 2019	1.35	<	<	<	<	7.64	126	9.91	0.766	<
19-SV15	October 30, 2019	1.44	<	<	<	<	<	68.8	<	0.707	<
SVP102											
18-SV003	May 2, 2018	2.84	<	<	<	<	<2.78	72.6	138	<	<
18-SV004*	May 2, 2018	3.60	<	<	<	<	<2.78	76.4	234	0.636	<
19-SV03	April 4, 2019	<0.879	<1.42	<0.714	<0.714	<0.714	<3.75	211	<0.678	<0.967	<0.460
19-SV04*	April 4, 2019	<	<	<	<	<	<	202	0.572	<	<
19-SV08	July 24, 2019	<0.977	<0.158	<0.793	<0.793	<0.793	<4.17	3080	2.23	1.46	<0.511
19-SV09*	July 24, 2019	<0.977	<0.158	<0.793	<0.793	<0.793	<4.17	2820	2.55	<1.07	<0.511
19-SV13	October 30, 2019	<	<	<	<	<	<	783	2.14	<	<
19-SV14*	October 30, 2019	<	<	<	<	<	<	794	3.86	<	<
SVP103											
18-SV002	May 2, 2018	3.87	<	<	<	<	3.00	27.2	144	<	<
19-SV02	April 4, 2019	<	<	<	<	<	<	52.4	1.27	<	<
19-SV07	July 24, 2019	<	<	<	<	<	<	370	1.66	1.03	<
19-SV12	October 30, 2019	<	<	<	<	<	<	103	<	<	<
SVP104											
18-SV001	May 2, 2018	1.42	<	<	<	<	<2.78	2.45	33.7	<	<
19-SV01	April 4, 2019	<	<	<	<	<	<	30.8	1.05	<	<
19-SV06	July 24, 2019	<	<	<	<	<	<	2.44	1.06	1.56	<
19-SV11	October 30, 2019	<	<	<	<	<	<	<	0.613	<	<

Notes: SVP### soil vapour probe location
 19-SV## sample ID
 RDL reportable detection limit
 < result below reportable detection limit
 < # elevated RDL
 * duplicate sample

Data Input: RV
 Data Check: ZL

¹ calculated based on an attenuation factor of 0.02 and MECP's 2011 Modified Generic Risk Assessment "Approved Model" (last updated November 1st, 2016) indoor air criteria for indoor use
Red, bold and underline indicates value exceeds the maximum acceptable vapour intrusion target levels (VITLs) calculated from the Residential, Lowest-Risk Level Health-Based Indoor Air Criteria from Modified Generic Risk Assessment "Approved Model", MECP, 2011 (last updated November 1, 2016)



Your P.O. #: .
 Your Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your C.O.C. #: 36071

Attention: David Carnegie

Malroz Engineering Inc.
 308 Wellington St
 Kingston, ON
 Canada K7K 7A8

Report Date: 2019/11/12
 Report #: R5961243
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9U6279
Received: 2019/10/31, 11:34

Sample Matrix: Air
 # Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Canister Pressure (TO-15)	5	N/A	2019/11/06 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2019/11/06 BRL SOP-00304	EPA TO-15 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
 (1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas Laboratories for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
 Marinela Sim, Project Manager
 Email: Marinela.Sim@bvlabs.com
 Phone# (905)817-5828

=====
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BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

RESULTS OF ANALYSES OF AIR

BV Labs ID		LEK482	LEK483	LEK484	LEK485	LEK486	
Sampling Date		2019/10/30	2019/10/30	2019/10/30	2019/10/30	2019/10/30	
COC Number		36071	36071	36071	36071	36071	
	UNITS	19-SV11/346	19-SV12/1903	19-SV13/1350	19-SV14/1399	19-SV15/2510	QC Batch
Volatile Organics							
Pressure on Receipt	psig	(-2.2)	(-1.4)	(-2.5)	(-2.3)	(-2.5)	6428892
QC Batch = Quality Control Batch							



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK482			LEK483				
Sampling Date		2019/10/30			2019/10/30				
COC Number		36071			36071				
	UNITS	19-SV11/346	ug/m3	DL (ug/m3)	19-SV12/1903	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Vinyl Chloride	ppbv	<0.10	<0.256	0.256	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	<0.792	0.792	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	<2.08	2.08	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	<0.10	<0.488	0.488	<0.10	0.10	<0.488	0.488	6428874
Trichloroethylene	ppbv	<0.10	<0.537	0.537	<0.10	0.10	<0.537	0.537	6428874
Tetrachloroethylene	ppbv	<0.10	<0.678	0.678	15.1	0.10	103	0.678	6428874
Toluene	ppbv	0.16	0.613	0.377	<0.10	0.10	<0.377	0.377	6428874
Surrogate Recovery (%)									
Bromochloromethane	%	84	N/A	N/A	84		N/A	N/A	6428874
D5-Chlorobenzene	%	71	N/A	N/A	72		N/A	N/A	6428874
Difluorobenzene	%	80	N/A	N/A	80		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK484			LEK485				
Sampling Date		2019/10/30			2019/10/30				
COC Number		36071			36071				
	UNITS	19-SV13/1350	ug/m3	DL (ug/m3)	19-SV14/1399	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Vinyl Chloride	ppbv	<0.10	<0.256	0.256	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	<0.792	0.792	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	<2.08	2.08	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	<0.10	<0.488	0.488	<0.10	0.10	<0.488	0.488	6428874
Trichloroethylene	ppbv	<0.10	<0.537	0.537	<0.10	0.10	<0.537	0.537	6428874
Tetrachloroethylene	ppbv	116	783	1.36	117	0.20	794	1.36	6428874
Toluene	ppbv	0.57	2.14	0.377	1.02	0.10	3.86	0.377	6428874
Surrogate Recovery (%)									
Bromochloromethane	%	85	N/A	N/A	85		N/A	N/A	6428874
D5-Chlorobenzene	%	72	N/A	N/A	73		N/A	N/A	6428874
Difluorobenzene	%	79	N/A	N/A	80		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK486				
Sampling Date		2019/10/30				
COC Number		36071				
	UNITS	19-SV15/2510	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Vinyl Chloride	ppbv	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	0.30	0.10	1.44	0.488	6428874
Trichloroethylene	ppbv	0.13	0.10	0.707	0.537	6428874
Tetrachloroethylene	ppbv	10.1	0.10	68.8	0.678	6428874
Toluene	ppbv	<0.10	0.10	<0.377	0.377	6428874
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	6428874
D5-Chlorobenzene	%	71		N/A	N/A	6428874
Difluorobenzene	%	79		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



BV Labs Job #: B9U6279
Report Date: 2019/11/12

Malroz Engineering Inc.
Client Project #: 917-106.00
Site Location: ROCHESTER ROW
Your P.O. #: .
Sampler Initials: RV

GENERAL COMMENTS

Sample LEK484 [19-SV13/1350] : Tetrachloroethylene was analyzed at a 2X dilution. The DL was adjusted accordingly.

Sample LEK485 [19-SV14/1399] : Tetrachloroethylene was analyzed at a 2X dilution. The DL was adjusted accordingly.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6428874	MNB	Spiked Blank	Bromochloromethane	2019/11/06		100	%	60 - 140
			D5-Chlorobenzene	2019/11/06		97	%	60 - 140
			Difluorobenzene	2019/11/06		100	%	60 - 140
			Vinyl Chloride	2019/11/06		100	%	70 - 130
			Chloroethane	2019/11/06		95	%	70 - 130
			1,1-Dichloroethylene	2019/11/06		97	%	70 - 130
			cis-1,2-Dichloroethylene	2019/11/06		96	%	70 - 130
			trans-1,2-Dichloroethylene	2019/11/06		101	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/11/06		95	%	70 - 130
			Chloroform	2019/11/06		102	%	70 - 130
			Trichloroethylene	2019/11/06		109	%	70 - 130
			Tetrachloroethylene	2019/11/06		108	%	70 - 130
			Toluene	2019/11/06		105	%	70 - 130
			6428874	MNB	Method Blank	Bromochloromethane	2019/11/06	
D5-Chlorobenzene	2019/11/06					75	%	60 - 140
Difluorobenzene	2019/11/06					85	%	60 - 140
Vinyl Chloride	2019/11/06	<0.10					ppbv	
Chloroethane	2019/11/06	<0.30					ppbv	
1,1-Dichloroethylene	2019/11/06	<0.10					ppbv	
cis-1,2-Dichloroethylene	2019/11/06	<0.10					ppbv	
trans-1,2-Dichloroethylene	2019/11/06	<0.10					ppbv	
Methylene Chloride(Dichloromethane)	2019/11/06	<0.60					ppbv	
Chloroform	2019/11/06	<0.10					ppbv	
Trichloroethylene	2019/11/06	<0.10					ppbv	
Tetrachloroethylene	2019/11/06	<0.10					ppbv	
Toluene	2019/11/06	<0.10					ppbv	
6428874	MNB	RPD [LEK483-01]				Vinyl Chloride	2019/11/06	NC
			Chloroethane	2019/11/06	NC		%	25
			1,1-Dichloroethylene	2019/11/06	NC		%	25
			cis-1,2-Dichloroethylene	2019/11/06	NC		%	25
			trans-1,2-Dichloroethylene	2019/11/06	NC		%	25
			Methylene Chloride(Dichloromethane)	2019/11/06	NC		%	25
			Chloroform	2019/11/06	NC		%	25
			Trichloroethylene	2019/11/06	NC		%	25
			Tetrachloroethylene	2019/11/06	3.9		%	25
			Toluene	2019/11/06	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BV Labs Job #: B9U6279
Report Date: 2019/11/12

Malroz Engineering Inc.
Client Project #: 917-106.00
Site Location: ROCHESTER ROW
Your P.O. #: .
Sampler Initials: RV

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Maureen Smith, Supervisor, Volatiles

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Chain of Custody Form - Summa™ Canister

36071



6740 Campobello Rd
Mississauga Ontario, L5N 2L8
WWW.MAXXAM.CA

Toll Free: 1-800-665-0639
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 / 2

Page 1 of 1

INVOICE INFORMATION
Company Name: City of Ottawa
Contact Name: Miss Ziebell
Address: 800 Greens Creek Dr
Ottawa ON
E-mail: michael.ziebell@ottawa.ca
Ph: _____
Sampled by: Bob Varcoe

REPORT INFORMATION
Company Name: Maxxam Engineering
Project Manager: Paul Cornejo
Address: 388 Wellington St
Kingshott Pk
Varcoe@maxxam.com
cornejo@maxxam.com
Ph: 617 546 3446

START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	Aromatic/Aliphatic Hydrocarbon Fractions	F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	ANALYSIS REQUESTED
											Vinyl chloride, Chloroethane, Dichloroethane, cis-1,2, Dichloroethane, trans-1,2, Dichlorobromethane, Methylenedichloride, Chloroform, Trichloroethylene, Tetrachloroethylene, Ethylene

CANISTERS NOT USED

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date											
19-SV11	346	F0704	19-10-30	27.0	3.5	X				X	X	X	X	
19-SV12	1903	F0817	↓	26.8	2.9	X				X	X	X	X	
19-SV13	1350	F0931	↓	26.5	4.2	X				X	X	X	X	
19-SV14	1399	F0962	↓	26.0	3.9	X				X	X	X	X	
19-SV15	2510	F0974	↓	23.1	4.1	X				X	X	X	X	

31-Oct-19 11:34
Sara Singh
B9U6279

TAT Requirement
 STD 10 Business day
 Rush 5 Business day *
 Rush 2 Business day *
 Rush Other *
 * need approval from Maxxam

PROJECT INFORMATION
 Project #: 917
 Name: Richester Row
 PO #: _____
 Maxxam Quote #: _____
 Maxxam Contact: _____
 Task Order/Line Item: _____

REPORTING REQUIREMENTS
 EDD Regulations: ON 153
 ON 419
 BC CSR
 Other: EPA TRIS

Notes:
 1) please indicate on soil vapour or ambient, KK4 AIR-001
 2) please list all canisters on the chain of custody even if unused

Client Signature: [Signature]
 Date/Time: 19/10/30

Received by: [Signature]
 Date/Time: 2019/10/30 13:30

PROJECT-SPECIFIC COMMENTS
Analyses same as previous job (B9K5128)
RECEIVED IN OTTAWA
PLEASE RETURN ALL UNUSED EQUIPMENT

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's Standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms
 000-1005 (11/2017)
Krushab Kapoor 2019/10/31 11:34

**RESIDENTIAL PROPERTIES
246, 250 & 254 ROCHESTER STREET
OTTAWA, ONTARIO
K1R 7N1**

AIR QUALITY ASSESSMENT

PREPARED FOR:

Carl Madigan
3N Group Holdings Inc.
1769 St. Laurent Boulevard
Ottawa, Ontario
K1G 3V4

Rubicon Job Number • R63048.0

Report Date • July 28, 2021



“...Environmental Solutions.”

Rubicon Environmental (2008) Inc.

60 Toronto Road, P.O. Box 509
Flesherton, Ontario
N0C 1E0

T: 519-924-0003
F: 519-924-0004

July 28, 2021

Mr. Carl Madigan
3N Group Holdings Inc.
1769 St. Laurent Boulevard
Ottawa, Ontario
K1G 3V4

Attention: Mr. Carl Madigan

R63048.0 AIR QUALITY ASSESSMENT
Residential Properties
246, 250 & 254 Rochester Street – Ottawa, Ontario

Dear Sir,

Please find enclosed the results for the above-mentioned investigation conducted on your behalf. Please feel free to contact me at 519-924-0003 if you require any additional information.

Sincerely,

RUBICON ENVIRONMENTAL (2008) INC.



Paul Rew, P. Eng., QP

Distribution:

Client: 1
Office: 1

"...Environmental Solutions"

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY.....	2
2.0	INTRODUCTION.....	3
3.0	SCOPE OF WORK.....	4
4.0	METHODOLOGY.....	5
4.1	On-Site Inspection.....	5
4.2	Indoor/Outdoor Air Quality Sampling Program.....	5
4.3	Sub-Slab Vapour Sampling Program.....	5
5.0	RESULTS.....	5
6.0	LABORATORY ANALYSIS.....	6
6.1	Air Quality Analysis.....	6
7.0	CONCLUSIONS AND RECOMMENDATIONS.....	7
8.0	REFERENCES.....	8
9.0	LIMITATIONS.....	9

LIST OF FIGURES, TABLES

TABLE 1:	Air Quality Analysis – TVOC's
TABLE 2:	AIR QUALITY ANALYSIS IN INDOOR HOMES – TVOC'S
TABLE 3:	CALIFORNIA MAXIMUM ALLOWABLE VOC CONCENTRATIONS – CHLOROFORM

FIGURE 1:	SITE LOCATION
FIGURE 2:	SITE PLAN
FIGURE 3:	SITE INVESTIGATION

APPENDIX 1:	SITE PHOTOS
APPENDIX 2:	LABORATORY CERTIFICATE OF ANALYSES
APPENDIX 3:	PREVIOUS ENVIRONMENTAL SITE ASSESSMENT REPORT



1.0 EXECUTIVE SUMMARY

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan to undertake an Air Quality Assessment at the residential properties located at 246, 250 & 254 Rochester Street, Ottawa, Ontario. The Air quality monitoring consisted of an initial meeting with the building management; an air sampling program to establish base line data with respect to Total Volatile Organic Compounds (TVOCs)); and provision of a summary report to document the findings and to present recommendations for the next course of action. The site inspection was carried out by Adam Ali-Decruz, Field Technician under supervision of Q.P. Paul Rew on June 21, 2021.

The Air Sampling Program was performed at the request of Mr. Dave Simpson on behalf of 3N Group Holdings Inc. in response to the voluntary compliance requirements as noted in an email dated April 30, 2021, from Mr. Larkin, Senior Environmental Officer, MECP. The purpose of the monitoring was to document the levels of basic air quality parameters in the site-building at the time and place of testing, as well as to assess presence of elevated soil vapour concentrations and contaminants of concern by sampling the existing soil vapour probes along Rochester Street.

The Air Sampling Program was conducted on June 21, 2021. In total, eight (8) air canister samples were taken after a four (4) hour sampling period to ascertain the air quality parameters in the study area as well as to assess the presence of elevated soil vapour concentrations and contaminants of concern. Three (3) samples were taken inside the residential properties located at 246, 250 & 254 Rochester Street, one was taken outside, and four (4) additional samples were taken from the existing soil vapour probes on the Rochester ROW.

Eight (8) verification air samples were collected and analyzed for permanent gases and Volatile Organic Compounds (VOCs). The subject property was assessed using the List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks. The laboratory analytical results for all the air samples analyzed showed that each of the locations submitted were below the applicable site conditions standards, apart for some exceedances for chloroform. As there is no set criteria for assessing air quality, Rubicon also compared the results to a study done on Canada's air quality; Table V.3. Compilation of Indoor Air Quality Data in Canadian Homes from 1991 to 1999 as well as Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$). The data can be seen in Tables 1-3 and shows that the concentrations obtained for Chloroform are regular indoor air quality concentrations. None of the potential contaminants of concerns which included; toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform were present at concentrations greater than the typical site condition standard at any of the sampling locations. Refer to Tables 1-3 for Air Quality Chemical Results.

Based on the findings of the Air Quality Assessment, the subject property meets the applicable List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks. As a result of the findings of the Air Quality Assessment, it is the opinion of Rubicon Environmental (2008) Inc. that there are no known environmental conditions within the areas investigated on the subject property to warrant further environmental investigation at this time.



2.0 INTRODUCTION

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan to conduct an Air Quality Assessment at the residential properties located at 246, 250 & 254 Rochester Street, Ottawa, Ontario (herein referred to as the "Subject Property").

An inferred chlorinated solvent contaminant plume along the Rochester Street ROW was identified by Malroz in a Remedial Options Assessment letter (previously reviewed reports), dated May 12, 2015. The letter included a review of data collected by others, from a group of properties near the intersection of Rochester and Balsam Street (the source site). The subject property was reportedly impacted by historic dry-cleaning operations and was proposed to be developed into condominiums. The data suggested that a groundwater contaminant plume comprising of toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform had migrated into the Rochester and Balsam Street ROWs, owned by the City, however, limited data was provided on the groundwater flow direction and quality.

The monitoring was performed at the request of Mr. Dave Simpson on behalf of 3N Group Holdings Inc. in response to the voluntary compliance requirements as noted in an email dated April 30, 2021 from Mr. Larkin, Senior Environmental Officer, MECP. The purpose of the monitoring was to document the levels of basic air quality parameters in the site-building at the time and place of testing, as well as to assess presence of elevated soil vapour concentrations and contaminants of concern by sampling the existing soil vapour probes along Rochester Street.

Previous Environmental Site Investigation

One (1) previous Soil Vapour Assessment was reviewed from the subject property, titled as:

1. *Supplementary Assessment of Soil Vapour Rochester Street Right of Way, Ottawa, Ontario.* Dated December 16, 2019. Completed by Malroz Engineering Inc.

The following is a summary of their findings / conclusions:

- The reason for the Soil Vapour Assessment was due to an inferred chlorinated solvent contaminant plume along the Rochester Street ROW was identified by Malroz in a Remedial Options Assessment letter, dated May 12, 2015.
- In 2017, a previously reviewed Phase 1 and 2 Environmental Site Assessments (ESAs) of a property located south of the source site on Balsam Street revealed the groundwater flow direction to reportedly be west-northwest, meaning the Rochester Street ROW is downgradient of the source site and may be impacted by the chlorinated solvent plume.
- In May, 2018, Malroz conducted a preliminary soil vapour assessment; installing four (4) vapour probes along Rochester Street, and taking a sample from each of the probes. "Results from the sampling indicated that measurable concentrations of toluene, chloroform, methylene chloride, PCE, and TCE were reported at one or more of the soil vapour points. However, reported concentrations of these contaminants were below calculated maximum acceptable vapour intrusion target levels (VITLs) for residential property use. Considering the variability of soil vapour data, additional sampling was recommended to confirm the results from the preliminary soil vapour assessment."
- Malroz completed two additional soil vapour sampling events at the subject site, once in April 2019, and once in July, 2019. Results from April 2019 "indicated that measurable concentrations of PCE were reported at each of the SVPs, and were below VITLs. However, concentrations of PCE at SVP102 were only slightly below (3-12 µg/m³) the corresponding



VITL.” Results from July 2019 “indicated that concentrations of PCE at SVP102 and SVP103 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP104, however, the measured concentrations met the VITL. Given the exceedances of VITLs at SVP102 and SVP103 during July 2019, an additional sampling event was recommended in the fall of 2019 to confirm the results and to further assess seasonal and temporal variability.”

3.0 SCOPE OF WORK

The scope of the monitoring consisted of the following:

- Prior to commencing the indoor air sampling program, Rubicon screened the assessment properties for any potential existing sources of vapours such as evidence of water infiltration, open sumps, floor drains, chemical storage etc.
- Rubicon then conducted air sampling via 6L evacuated canisters, supplied by ALS Environmental, in below grade levels within the assessment properties.
- In order to provide background air quality data for comparison to indoor air quality data, an additional evacuated air canister was allocated outside.
- To further analyze the vapour concentrations, four (4) existing vapour probes were sampled via 6L evacuated canisters.
- The interval of the air sampling was a 4-hour period with the use of laboratory supplied, 6L evacuated canisters, and 4-hour Time Weighted Average (TWA) flow controllers. All air samples were submitted to ALS Environmental for the analysis of TVOCs, following chain of custody protocol.
- Rubicon recorded pre-sampling data, post-sampling data and canister integrity data to demonstrate quality control measures.
- Following the completion of the air sampling program and the collection of all relevant data including the laboratory certificates of analysis, Rubicon prepared our findings and recommendations in a report to be submitted to the MECP for review.



4.0 METHODOLOGY

4.1 On-Site Inspection

Rubicon arrived on the site on June 21, 2021 and conducted a visual inspection throughout the entire study area. No significant staining or spillage was observed on site or the immediate surrounding areas, no sources of vapours including evidence of water infiltration, open sumps, floor drains or chemical storage were observed on site.

4.2 Indoor/Outdoor Air Quality Sampling Program

Three (3) 6.0 L canisters were set up in the basement of the residential properties located at 246, 250 & 254 Rochester Street, Ottawa Ontario. The canister pressures were all recorded to be approximately 27"Hg at the beginning of the sampling program, the pressure at the end of the sampling program for all the canisters were between 5-7"Hg. The canisters were set up for an average sampling time of four (4) hours, the earliest recorded start time was 11:27 AM, with the latest recorded stop time of 4:34 PM.

One (1) additional 6.0 L canister was set up just outside 250 Rochester Street, Ottawa Ontario on the sidewalk. The additional 6.0 L canister was set up in order to provide background air quality data for comparison to indoor air quality data. The canister pressure at the beginning of the sampling program was recorded to be 27"Hg, and at the end of the day recorded to be 7"Hg. The canister was set up for a sampling time of four (4) hours, starting at 12:40 PM and ending at 4:40 PM.

4.3 Sub-Slab Vapour Sampling Program

In May of 2018, four soil vapour probes (SVPs) were installed along the Rochester Street ROW. Four (4) 6.0 L canisters were set up along each of the four (4) SVP's for a four (4) hour sampling period. The canister pressures were all recorded to be approximately 27"Hg at the beginning of the sampling program, the pressure at the end of the sampling program for all the canisters was between 5-7"Hg. The canisters were set up for an average sampling time of four (4) hours, the earliest recorded start time was 11:43 AM, with the latest recorded stop time of 4:57 PM.

5.0 RESULTS

The results of the air sampling program for the analysis of permanent gases and TVOCS on the subject property are presented in Table 1. As per ALS, the analysis of permanent gases is performed using procedures adapted from EPA Method 3C & ASTM D1946. Air samples are collected into cleaned evacuated canisters. A volume of air is removed from the canister and injected by means of a gas-sampling/backflush valve onto a series of packed GC columns, passed through a methanizer and measured using a flame ionization detector (FID). Similarly, the analysis of TVOC's is performed using procedures adapted from EPA Method TO-15. Air samples are collected into cleaned evacuated canisters. A volume of air sample is transferred from the canister to a pre-concentrator system where the analytes are trapped & focused. The analytes are then thermally desorbed into a GC-MSD for analysis.



6.0 LABORATORY ANALYSIS

ALS Environmental, Waterloo, Ontario, conducted the Chemical analysis. ALS Environmental is a member of the Canadian Association for Laboratory Accreditation Inc. (CALA) and meets the requirements of Section 47 of O. Reg. 153/04 certifying that the analytical laboratory be accredited in accordance with the International Standard ISO/IEC 17025 and with standards developed by the Standards Council of Canada. Refer to the attached certificate of analysis. Appendix 2 contains all laboratory Certificates of Analysis.

6.1 Air Quality Analysis

The quality of the indoor environment is typically affected by the interaction of the site, the climate, the building system, potential contaminant sources, and the building occupants. Adequate ventilation provides dilution and removal of contaminants generated by the people, their activities and the processes in the indoor environment. Proper ventilation also provides a thermally comfortable environment for the occupants.

Currently, there is no legislation regulating the levels of contaminants typically found in non-industrial environments. As a result, at present, existing standards and guidelines are used when evaluating indoor air quality. Standards and guidelines used by Rubicon in interpreting the results of the investigation include:

- List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks
- Appendix V - Literature Review on Background Indoor Air Levels of VOCs in Canadian Homes Table V.4. Compilation of Indoor Air Data in Canadian Homes from 2002 to 2010
- Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$)

The air sampling locations are presented in Figure 3.

The subject property was assessed using the List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of Environment, Conservation and Parks. However, these are all analyzed for a 24-hour sampling period, meaning this is the strictest criteria to compare to.

The laboratory analytical results for all the air samples analyzed showed that each of the locations submitted were below the applicable site conditions standards, apart for exceedances for chloroform from Indoor 254, Indoor 250, Indoor 246 and VP101. Rubicon conducting sampling for a four-hour period, meaning that this is a much stricter criteria than would normally apply (24 hour). As there is no set criteria for assessing air quality, Rubicon also compared the results to a study done on Canada's air quality; Table V.3. Compilation of Indoor Air Quality Data in Canadian Homes from 1991 to 1999 as well as Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$). The data can be seen in Tables 2 and 3 and shows that the concentrations obtained for Chloroform are regular indoor air quality concentrations. None of the potential contaminants of concerns which included; toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform were present at concentrations greater than the typical site condition standard at any of the sampling locations. Refer to Tables 1-3 for Air Quality Results.

VP 102 did not have any results, as the seal was most likely broken and/ or clogged due to time, leading to the volatilization of any vapors that were present.



7.0 CONCLUSIONS AND RECOMMENDATIONS

Rubicon Environmental (2008) Inc. was retained by Mr. Carl Madigan on behalf of 3N Group Holdings Inc. to undertake an Indoor Air Quality Assessment at the residential properties located at 246, 250 and 254 Rochester Street, Ottawa Ontario. The Air Quality monitoring consisted of air sampling with a 6.0 L canister to establish base line data with respect to Total Volatile Organic Compounds (TVOCs)); as well as the provision of a summary report to document the findings and to present recommendations for the next course of action.

The air monitoring program was performed at the request of Mr. Dave Simpson on behalf of 3N Group Holdings Inc. in response to the voluntary compliance requirements as noted in an email dated April 30, 2021 from Mr. Larkin, Senior Environmental Officer, MECP. The purpose of the monitoring was to document the levels of basic air quality parameters in the site-building at the time and place of testing, as well as to assess presence of elevated soil vapour concentrations and contaminants of concern by sampling the existing soil vapour probes along Rochester Street.

The Air Sampling Program was conducted on June 21, 2021. In total, eight (8) air canister samples were taken after a four (4) hour sampling period to ascertain the air quality parameters in the study area as well as to assess the presence of elevated soil vapour concentrations and contaminants of concern. Three (3) samples were taken inside the residential properties located at 246, 250 & 254 Rochester Street, one (1) was taken outside, and four (4) additional samples were taken from the existing soil vapour probes on the Rochester ROW.

Eight (8) verification air samples were collected and analyzed for permanent gases and Volatile Organic Compounds (VOCs). The subject property was assessed using the List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks. The laboratory analytical results for all the air samples analyzed showed that each of the locations submitted were below the applicable site conditions standards, apart for some exceedances for chloroform. As there is no set criteria for assessing air quality, Rubicon also compared the results to a study done on Canada's air quality; Table V.3. Compilation of Indoor Air Quality Data in Canadian Homes from 1991 to 1999 as well as Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$). The data can be seen in Tables 2 and 3 and shows that the concentrations obtained for Chloroform are regular indoor air quality concentrations. None of the potential contaminants of concerns which included; toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform were present at concentrations greater than the typical site condition standard at any of the sampling locations. Refer to Tables 1-3 for Air Quality Chemical Results.

Based on the findings of the Air Quality Assessment, the subject property meets the applicable List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks. As a result of the findings of the Air Quality Assessment, it is the opinion of Rubicon Environmental (2008) Inc. that there are no known environmental conditions within the areas investigated on the subject property to warrant further environmental investigation at this time.

Respectfully submitted,

RUBICON ENVIRONMENTAL (2008) INC.

Paul D. Rew, P.Eng. QP



Rubicon Environmental (2008) Inc.

Air Quality Assessment
Residential Properties
246, 250 & 254 Rochester Street, Ottawa, Ontario

8.0 REFERENCES

Google Maps URL: <http://maps.google.ca/maps>

Ontario Geological Survey 1991. Bedrock geology of Ontario, east-central sheet; Ontario Geological Survey, Map 2543, scale 1:1 000 000.

Barnett, P.J., Henry, A.P. and Babuin, D. 1991. Quaternary geology of Ontario, east-central sheet; Ontario Geological Survey, Map 2555, scale 1:1 000 000.

Ontario Ministry of the Environment, Ontario Regulation 153/04, as amended by Ontario Regulation 511/09.

Topographic Map referenced from Natural Resources Canada:
<http://www.atlas.nrcan.gc.ca/site/english/toporama/index.html>

List of Ambient Air Quality Criteria (AAQCs) from Ontario's Ambient Air Quality Criteria set by the Ministry of the Environment, Conservation and Parks

Appendix V - Literature Review on Background Indoor Air Levels of VOCs in Canadian Homes
Table V.4. Compilation of Indoor Air Data in Canadian Homes from 2002 to 2010

Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$)



9.0 LIMITATIONS

1. This assessment was conducted in accordance with generally accepted engineering standards. It is possible that materials other than those described in this report are present at the site. The client acknowledges that no assessment can necessarily identify the existence of all contaminants, potential contaminants or environmental conditions;
2. This report was prepared for the sole and exclusive use of Mr. Carl Madigan on behalf of 3N Group Holdings Inc.; Rubicon Environmental (2008) Inc. accepts no responsibility or liability for any loss, damage, expense, fine or any other claim of any nature or type, including any liability or potential liability arising from its own negligence, for any use of this report or reliance on it, in whole or in part, by anyone other than Mr. Carl Madigan on behalf of 3N Group Holdings Inc.
3. There is no representation, warranty or condition, express or implied, by Rubicon Environmental (2008) Inc. or its officers, directors, employees or agents that this assessment has identified all contaminants, potential contaminants or environmental conditions at the site or that the site is free from contamination, potential contaminants or environmental conditions other than those noted in this report;
4. This assessment has been completed from information and documentation described in this report as well as the results of indoor air quality analysis. We have assumed that any such information and documentation is accurate and complete. We can accept no responsibility or liability for any errors, deficiencies or inaccuracies in this report arising from errors or omissions in the information and documentation provided by others;
5. This assessment was based on information and the results of investigation(s) obtained on the date(s) specified. Rubicon Environmental (2008) Inc. accepts no responsibility or liability for any changes or potential changes in the condition of the site subsequent to the date of our investigation(s);
6. The conditions between sampling locations have been inferred, to the best of our ability, based on the conditions observed at sampling locations. Conditions between and beyond sampling locations may vary. This assessment pertains, only, to the site specifically described in this report and not to any adjacent or other property;
7. This assessment does not include, nor is it intended to include, any opinion regarding the suitability of any structure on the site for any particular function, the integrity of the on-site buildings or the geotechnical conditions on the site, with the exception of how they may identify with environmental concerns. Inspections of buildings do not include compliance with building, gas, electrical or boiler codes, or any other federal, provincial or municipal codes not associated with environmental concerns. Should concerns regarding any parameters other than environmental concerns arise as a result of our investigation(s), they should be addressed by appropriately qualified professionals; and,
8. This report is not to be reproduced or released to any other party, in whole or in part, without the express written consent of Rubicon Environmental (2008) Inc.



TABLES



Table 1: Air Quality Analysis – TVOC's

Parameter	List of Ambient Air Quality Criteria (AAQCs) ($\mu\text{g}/\text{m}^3$)	Indoor 250	Indoor 254	Indoor 246	Outdoor	VP101	VP103	VP104
Date of Collection		June 21, 2021						
Date Reported		July 9, 2021						
Sampling Time (Hours)		4	4	4	4	4	4	4
Analytical report reference number		L2605307-1	L2605307-2	L2605307-3	L2605307-4	L2605307-5	L2605307-6	L2605307-7
Chloroform	1	1.50	3.73	1.08	<0.098	2.06	0.178	<0.098
Dichloroethylene, cis-1,2-	105	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79	<0.79
Tetrachloroethylene (PCE)	360 (24 hours)	<1.4	<1.4	<1.4	<1.4	178	176	6.9
Toluene	2000	4.98	3.36	3.43	1.06	0.87	<0.75	<0.75
Trichloroethylene (TCE)	12(24 hours)	<0.11	<0.11	<0.11	<0.11	1.98	0.26	<0.11
Vinyl Chloride	1 (24 hours)	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051

All values in $\mu\text{g}/\text{m}^3$ * Ontario's Ambient Air Quality Criteria - List of Ambient Air Quality Criteria (AAQCs) applied.

Red – Measured Conc. exceeds criteria

Table 2: Air Quality Analysis in Indoor Homes – TVOC's

Parameter	Table V.4. Compilation of Indoor Air Data in Canadian Homes from 2002 to 2010 Ottawa (Ontario) - 2005 Unit in $\mu\text{g}/\text{m}^3$ (Min, Max)	Indoor 250	Indoor 254	Indoor 246
Date of Collection		June 21, 2021	June 21, 2021	June 21, 2021
Date Reported		July 9, 2021	July 9, 2021	July 9, 2021
Sampling Time (Hours)		4	4	4
Analytical report reference number		L2605307-1	L2605307-2	L2605307-3
Chloroform	(0.01, 8.23)	1.50	3.73	1.08
Dichloroethylene, cis-1,2-	-	<0.79	<0.79	<0.79
Tetrachloroethylene (PCE)	(0.015, 9.23)	<1.4	<1.4	<1.4
Toluene	(0.015, 112.93)	4.98	3.36	3.43
Trichloroethylene (TCE)	(0.01, 0.87)	<0.11	<0.11	<0.11
Vinyl Chloride	-	<0.051	<0.051	<0.051

All values in $\mu\text{g}/\text{m}^3$ * Appendix V - Literature Review on Background Indoor Air Levels of VOCs in Canadian Homes Table V.4. Compilation of Indoor Air Data in Canadian Homes from 2002 to 2010 applied.

Red – Measured Conc. exceeds criteria



Table 3: California Maximum Allowable VOC Concentrations – Chloroform

Parameter	Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$)	Indoor 250	Indoor 254	Indoor 246	Outdoor	VP101	VP103	VP104
Date of Collection		June 21, 2021						
Date Reported		July 9, 2021						
Sampling Time (Hours)		4	4	4	4	4	4	4
Analytical report reference number		L2605307- 1	L2605307- 2	L2605307- 3	L2605307- 4	L2605307- 5	L2605307- 6	L2605307- 7
Chloroform	150	1.50	3.73	1.08	<0.098	2.06	0.178	<0.098

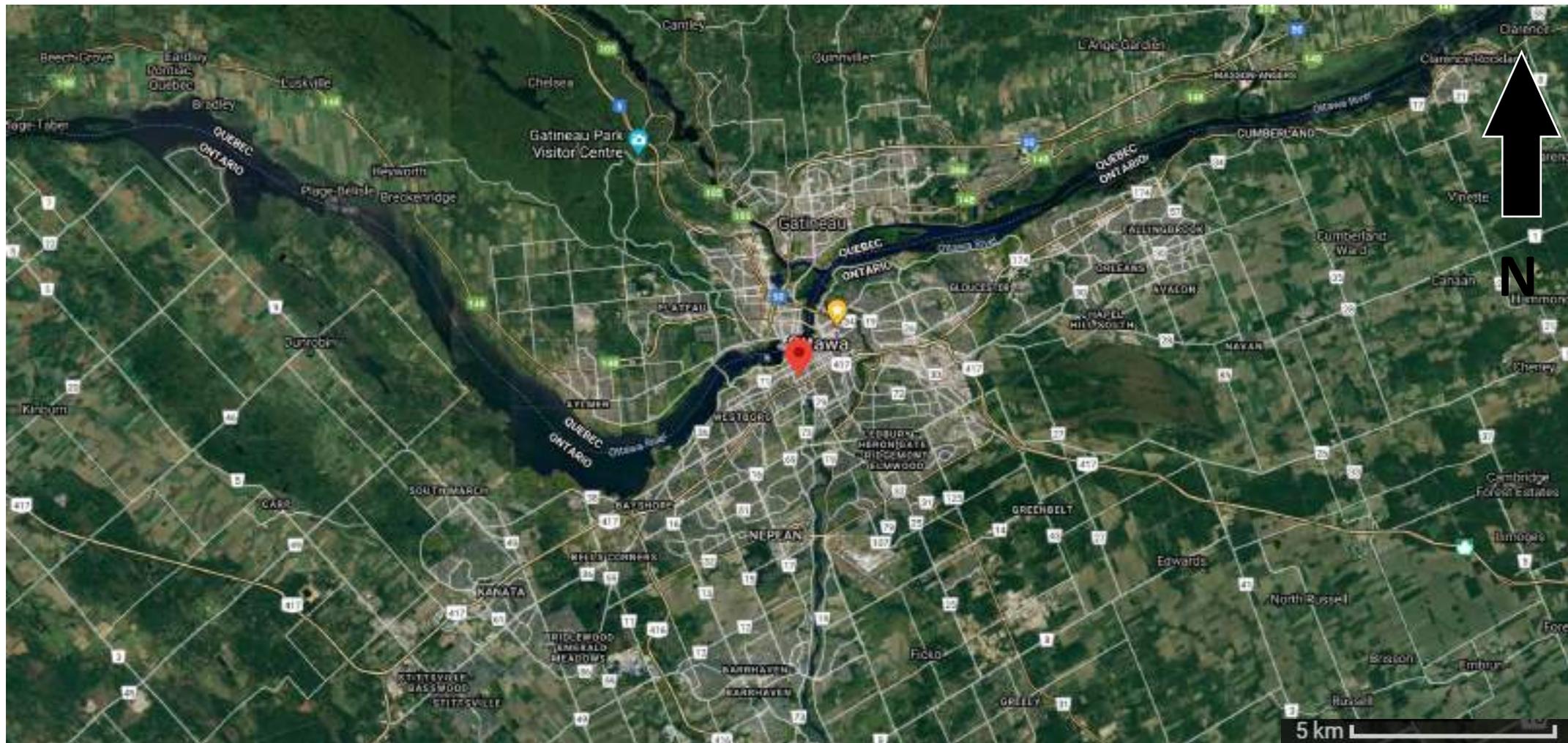
All values in $\mu\text{g}/\text{m}^3$ * Table F-5 State of California Maximum Allowable VOC Concentration Limits (DGS 2008) ($\mu\text{g}/\text{m}^3$) applied.

Red – Measured Conc. exceeds criteria



FIGURES





R63048.0	NAME	DATE	 <p>Rubicon Environmental (2008) Inc.</p>	<p>Figure 1: Site location</p>
DRAWN BY:	AA	July 2021		
CHECKED BY:	PDR	July 2021		
246, 250 & 254 Rochester Street, Ottawa / ON				



R63048.0	NAME	DATE	 Rubicon Environmental (2008) Inc.	Figure 2: Site Plan	Legend Site Buildings 
DRAWN BY:	AA	July 2021			
CHECKED BY:	PDR	July 2021			
246, 250 & 254 Rochester Street, Ottawa / ON					



R63048.0	NAME	DATE	 Rubicon Environmental (2008) Inc.	Figure 3: Site Investigation	Legend	
DRAWN BY:	AA	July 2021			Site Building	
CHECKED BY:	PDR	July 2021			Air Sample	
246, 250 & 254 Rochester Street, Ottawa / ON						

Appendix 1 Site Photos





Image 1 – Air Canister Sampling at 254 Rochester Street (Indoor254)



Image 2 – Outdoor Air Sampling canister (Outdoor)



Image 3 – VP 104 Air Cannister Sampling (VP104)



Image 4 – VP 103 Air Cannister Sampling (VP103)



Image 5 – VP 102 Air Cannister Sampling (VP102)



Image 6 – VP 101 Air Cannister Sampling (VP101)



Image 7 – Air Cannister sampling at 246 Rochester Street (Indoor246)



Image 8 – Air canister sampling at 250 Rochester Street (Indoor250)

Appendix 2

Laboratory Certificates of Analysis





RUBICON ENVIRONMENTAL INC.
ATTN: Paul Rew
60 Toronto St
Flesherton ON NOC 1E0

Date Received: 23-JUN-21
Report Date: 09-JUL-21 15:03 (MT)
Version: FINAL

Client Phone: 519-857-7435

Certificate of Analysis

Lab Work Order #: L2605307
Project P.O. #: NOT SUBMITTED
Job Reference: R63048
C of C Numbers:
Legal Site Desc:

Gayle Braun
Senior Account Manager

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ALS CANADA LTD Part of the ALS Group An ALS Limited Company

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-1 INDOOR 250							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.058		0.050	%		02-JUL-21	R5513172
Methane	0.00030		0.00010	%		02-JUL-21	R5513172
Nitrogen	77.3		1.0	%		28-JUN-21	R5513106
Oxygen	21.2		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	51.3		5.9	ug/m3		07-JUL-21	R5513591
Acetone	21.6		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	0.414		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.130		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.54		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.086		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	1.50		0.098	ug/m3		07-JUL-21	R5513591
Chloroform	0.308		0.020	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	4.61		0.60	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	0.77		0.10	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	0.063		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	0.016		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	0.70		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-1 INDOOR 250							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	0.96		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	0.27		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	2.50		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	0.85		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	0.58		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	0.111		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	<1.4		1.4	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Toluene	4.98		0.75	ug/m3		07-JUL-21	R5513591
Toluene	1.32		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Trichloroethylene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	94.2		70-130	%		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-1 INDOOR 250 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
Surrogate: 4-Bromofluorobenzene	101.9		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210519.107				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0401				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-5.1		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	N/A				05-JUL-21	05-JUL-21	R5512895
L2605307-2 INDOOR 254 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.058		0.050	%		02-JUL-21	R5513172
Methane	0.00027		0.00010	%		02-JUL-21	R5513172
Nitrogen	78.2		1.0	%		28-JUN-21	R5513106
Oxygen	21.4		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	51.0		5.9	ug/m3		07-JUL-21	R5513591
Acetone	21.5		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	1.28		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.401		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.53		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.083		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	3.73		0.49	ug/m3		07-JUL-21	R5513591
Chloroform	0.76		0.10	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	0.17		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	0.029		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	0.809		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	0.200		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-2 INDOOR 254							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	1.12		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	0.32		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	<0.70		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	3.35		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	1.13		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	0.46		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	0.087		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	<1.4		1.4	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Toluene	3.36		0.75	ug/m3		07-JUL-21	R5513591
Toluene	0.89		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-2 INDOOR 254 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
Trichloroethylene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	92.5		70-130	%		07-JUL-21	R5513591
Surrogate: 4-Bromofluorobenzene	100.4		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210406.11				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0190				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-6.5		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0121				05-JUL-21	05-JUL-21	R5512895
L2605307-3 INDOOR 246 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.0459		0.0010	%		02-JUL-21	R5513172
Methane	0.00031		0.00010	%		02-JUL-21	R5513172
Nitrogen	78.9		1.0	%		28-JUN-21	R5513106
Oxygen	21.5		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	25.7		5.9	ug/m3		07-JUL-21	R5513591
Acetone	10.8		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	0.400		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.125		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.51		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.081		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	1.08		0.098	ug/m3		07-JUL-21	R5513591
Chloroform	0.221		0.020	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-3 INDOOR 246							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.12		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	0.090		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	0.022		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	0.79		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	0.23		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	<0.70		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	9.45		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	3.20		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	0.57		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	0.109		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-3 INDOOR 246 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	<1.4		1.4	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Toluene	3.43		0.75	ug/m3		07-JUL-21	R5513591
Toluene	0.91		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Trichloroethylene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	96.1		70-130	%		07-JUL-21	R5513591
Surrogate: 4-Bromofluorobenzene	101.6		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210505.108				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0416				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-6.9		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0026				05-JUL-21	05-JUL-21	R5512895
L2605307-4 OUTDOOR Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.0402		0.0010	%		02-JUL-21	R5513172
Methane	0.00025		0.00010	%		02-JUL-21	R5513172
Nitrogen	79.1		1.0	%		28-JUN-21	R5513106
Oxygen	21.6		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	17.5		5.9	ug/m3		07-JUL-21	R5513591
Acetone	7.4		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	0.395		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.124		0.020	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-4 OUTDOOR							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.50		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.079		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	<0.098		0.098	ug/m3		07-JUL-21	R5513591
Chloroform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.12		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	0.051		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	0.013		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	<0.69		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	<0.70		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-4 OUTDOOR Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
Methyl ethyl ketone	1.35		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	0.46		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	<0.26		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	<0.050		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	<1.4		1.4	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Toluene	1.06		0.75	ug/m3		07-JUL-21	R5513591
Toluene	0.28		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Trichloroethylene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	95.7		70-130	%		07-JUL-21	R5513591
Surrogate: 4-Bromofluorobenzene	100.2		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210422.101				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0030				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-8.6		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0080				05-JUL-21	05-JUL-21	R5512895
L2605307-5 VP 101 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-5 VP 101							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.050	DLM	0.050	%		02-JUL-21	R5513172
Carbon Dioxide	2.14		0.050	%		02-JUL-21	R5513172
Methane	<0.050	DLM	0.050	%		02-JUL-21	R5513172
Nitrogen	80.3		1.0	%		28-JUN-21	R5513106
Oxygen	18.7		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	65.8		5.9	ug/m3		07-JUL-21	R5513591
Acetone	27.7		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	0.419		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.131		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.24		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.038		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	2.06		0.49	ug/m3		07-JUL-21	R5513591
Chloroform	0.42		0.10	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.12		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	<0.040		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	<0.69		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-5 VP 101							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	7.07		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	2.00		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	8.88		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	3.01		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	<0.26		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	<0.050		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	178		6.8	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	26.3		1.0	ppb(V)		07-JUL-21	R5513591
Toluene	0.87		0.75	ug/m3		07-JUL-21	R5513591
Toluene	0.23		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Trichloroethylene	1.98		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	0.368		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	2.3		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	0.54		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	0.54		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	2.3		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	94.6		70-130	%		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-5 VP 101 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
Surrogate: 4-Bromofluorobenzene	100.0		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210511.116				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0144				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-6.9		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0060				05-JUL-21	05-JUL-21	R5512895
L2605307-7 VP 103 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.947		0.050	%		02-JUL-21	R5513172
Methane	0.00041		0.00010	%		02-JUL-21	R5513172
Nitrogen	78.6		1.0	%		28-JUN-21	R5513106
Oxygen	18.1		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	8.3		1.2	ug/m3		07-JUL-21	R5513591
Acetone	3.48		0.50	ppb(V)		07-JUL-21	R5513591
Benzene	0.462		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.145		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	0.16		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	0.025		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	0.178		0.098	ug/m3		07-JUL-21	R5513591
Chloroform	0.036		0.020	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.12		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	<0.040		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-7 VP 103							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	<0.69		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	<0.70		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	0.87		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	0.30		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	<0.26		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	<0.050		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	176		6.8	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	25.9		1.0	ppb(V)		07-JUL-21	R5513591
Toluene	<0.75		0.75	ug/m3		07-JUL-21	R5513591
Toluene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-7 VP 103 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Volatile Organic Compounds							
Trichloroethylene	0.26		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	0.048		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	93.5		70-130	%		07-JUL-21	R5513591
Surrogate: 4-Bromofluorobenzene	101.9		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210505.102				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0263				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-8.2		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0127				05-JUL-21	05-JUL-21	R5512895
L2605307-8 VP 104 Sampled By: CLIENT on 21-JUN-21 @ 16:00 Matrix: AIR							
Permanent Gases							
Carbon Monoxide	<0.00010		0.00010	%		02-JUL-21	R5513172
Carbon Dioxide	0.930		0.050	%		02-JUL-21	R5513172
Methane	<0.00010		0.00010	%		02-JUL-21	R5513172
Nitrogen	78.2		1.0	%		28-JUN-21	R5513106
Oxygen	18.9		0.10	%		28-JUN-21	R5513106
Volatile Organic Compounds							
Acetone	11.3		5.9	ug/m3		07-JUL-21	R5513591
Acetone	4.8		2.5	ppb(V)		07-JUL-21	R5513591
Benzene	0.133		0.064	ug/m3		07-JUL-21	R5513591
Benzene	0.042		0.020	ppb(V)		07-JUL-21	R5513591
Bromoform	<0.21		0.21	ug/m3		07-JUL-21	R5513591
Bromoform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Bromomethane	<0.78		0.78	ug/m3		07-JUL-21	R5513591
Bromomethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Carbon Tetrachloride	<0.13		0.13	ug/m3		07-JUL-21	R5513591
Carbon Tetrachloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Chlorobenzene	<0.92		0.92	ug/m3		07-JUL-21	R5513591
Chlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Chloroform	<0.098		0.098	ug/m3		07-JUL-21	R5513591
Chloroform	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,2-Dibromoethane	<0.077		0.077	ug/m3		07-JUL-21	R5513591
1,2-Dibromoethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-8 VP 104							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
1,2-Dichlorobenzene	<1.2		1.2	ug/m3		07-JUL-21	R5513591
1,2-Dichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.12		0.12	ug/m3		07-JUL-21	R5513591
1,4-Dichlorobenzene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethane	<0.81		0.81	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloroethane	<0.040		0.040	ug/m3		07-JUL-21	R5513591
1,2-Dichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
1,1-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
1,1-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
cis-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.79		0.79	ug/m3		07-JUL-21	R5513591
trans-1,2-Dichloroethene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methylene chloride	<0.69		0.69	ug/m3		07-JUL-21	R5513591
Methylene chloride	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2-Dichloropropane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,2-Dichloropropane	<0.030		0.030	ppb(V)		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
cis-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.091		0.091	ug/m3		07-JUL-21	R5513591
trans-1,3-Dichloropropene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
1,3-Dichloropropene (cis & trans)	<0.028		0.028	ppb(V)		07-JUL-21	
1,3-Dichloropropene (cis & trans)	<0.13		0.13	ug/m3		07-JUL-21	
1,4-Dioxane	<0.72		0.72	ug/m3		07-JUL-21	R5513591
1,4-Dioxane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Ethylbenzene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
Ethylbenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Hexachlorobutadiene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Hexachlorobutadiene	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
n-Hexane	<0.70		0.70	ug/m3		07-JUL-21	R5513591
n-Hexane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Methyl ethyl ketone	0.97		0.59	ug/m3		07-JUL-21	R5513591
Methyl ethyl ketone	0.33		0.20	ppb(V)		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.82		0.82	ug/m3		07-JUL-21	R5513591
Methyl isobutyl ketone	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
MTBE	<0.72		0.72	ug/m3		07-JUL-21	R5513591
MTBE	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
Naphthalene	<0.26		0.26	ug/m3		07-JUL-21	R5513591
Naphthalene	<0.050		0.050	ppb(V)		07-JUL-21	R5513591
Styrene	<0.85		0.85	ug/m3		07-JUL-21	R5513591
Styrene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.14		0.14	ug/m3		07-JUL-21	R5513591
1,1,1,2-Tetrachloroethane	<0.020		0.020	ppb(V)		07-JUL-21	R5513591

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L2605307-8 VP 104							
Sampled By: CLIENT on 21-JUN-21 @ 16:00							
Matrix: AIR							
Volatile Organic Compounds							
1,1,2,2-Tetrachloroethane	<0.069		0.069	ug/m3		07-JUL-21	R5513591
1,1,2,2-Tetrachloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Tetrachloroethylene	6.9		1.4	ug/m3		07-JUL-21	R5513591
Tetrachloroethylene	1.02		0.20	ppb(V)		07-JUL-21	R5513591
Toluene	<0.75		0.75	ug/m3		07-JUL-21	R5513591
Toluene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<1.5		1.5	ug/m3		07-JUL-21	R5513591
1,2,4-Trichlorobenzene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,1-Trichloroethane	<1.1		1.1	ug/m3		07-JUL-21	R5513591
1,1,1-Trichloroethane	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.055		0.055	ug/m3		07-JUL-21	R5513591
1,1,2-Trichloroethane	<0.010		0.010	ppb(V)		07-JUL-21	R5513591
Trichloroethylene	<0.11		0.11	ug/m3		07-JUL-21	R5513591
Trichloroethylene	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
Vinyl chloride	<0.051		0.051	ug/m3		07-JUL-21	R5513591
Vinyl chloride	<0.020		0.020	ppb(V)		07-JUL-21	R5513591
o-Xylene	<0.87		0.87	ug/m3		07-JUL-21	R5513591
o-Xylene	<0.20		0.20	ppb(V)		07-JUL-21	R5513591
m&p-Xylene	<1.7		1.7	ug/m3		07-JUL-21	R5513591
m&p-Xylene	<0.40		0.40	ppb(V)		07-JUL-21	R5513591
Xylenes (Total)	<0.45		0.45	ppb(V)		07-JUL-21	
Xylenes (Total)	<2.0		2.0	ug/m3		07-JUL-21	
Surrogate: 4-Bromofluorobenzene	92.4		70-130	%		07-JUL-21	R5513591
Surrogate: 4-Bromofluorobenzene	103.4		70-130	%		07-JUL-21	R5513591
Miscellaneous							
Batch Proof ID	210317.101				05-JUL-21	05-JUL-21	R5512895
Canister ID	06000-0166				05-JUL-21	05-JUL-21	R5512895
Pressure on Receipt	-7.3		-30	in Hg	05-JUL-21	05-JUL-21	R5512895
Regulator ID	CS1200-0141				05-JUL-21	05-JUL-21	R5512895

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Sample Parameter Qualifier key listed:

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
CAN-DATA-WT	Canister	Canister Information Batch Proof ID, Canister ID, Pressure on Receipt, Regulator ID.	EPA TO-15
FIXED GASES-L-FID-WT	Canister	Low Level CO ₂ , CO & CH ₄ by FID	EPA Method 3C & ASTM D1946
<p>This analysis is performed using procedures adapted from EPA Method 3C & ASTM D1946. Air samples are collected into cleaned evacuated canisters. A volume of air is removed from the canister and injected by means of a gas-sampling/backflush valve onto a series of packed GC columns, passed through a methanizer and measured using a flame ionization detector (FID).</p> <p>Canister samples will be retained for 7 calendar days after final report. If you require a longer canister storage time, please contact your account manager.</p>			
FIXED GASES-TCD-WT	Canister	High Level Fixed Gases by TCD	EPA Method 3C & ASTM D1946
<p>This analysis is performed using procedures adapted from EPA Method 3C & ASTM D1946. Air samples are collected into cleaned evacuated canisters. A volume of air is removed from the canister and injected by means of a gas-sampling/backflush valve onto a series of packed GC columns and measured using a thermal conductivity detector (TCD).</p> <p>Oxygen is not separated from Argon.</p> <p>Canister samples will be retained for 7 calendar days after final report. If you require a longer canister storage time, please contact your account manager.</p>			
VOC-1,3-DCP-CALC-WT	Canister	Sum of cis- and trans-dichloropropene	Calculation
VOC-GCMS-WT	Canister	Volatile Organic Compounds	EPA TO-15
<p>This analysis is performed using procedures adapted from EPA Method TO-15. Air samples are collected into cleaned evacuated canisters. A volume of air sample is transferred from the canister to a preconcentrator system where the analytes are trapped & focused. The analytes are then thermally desorbed into a GC-MSD for analysis. Test results are not blank corrected unless indicated by a qualifier.</p> <p>Canister samples will be retained for 7 calendar days after final report. If you require a longer canister storage time, please contact your account manager.</p> <p>"Due to elevated laboratory background levels of IPA resulting from COVID-19 cleaning protocols, ALS is unable to report IPA results until further notice."</p>			
VOC-L-GCMS-WT	Canister	Volatile Organic Compounds Low Level	EPA TO-15
<p>This analysis is performed using procedures adapted from EPA Method TO-15. Air samples are collected into cleaned evacuated canisters. A volume of air sample is transferred from the canister to a preconcentrator system where the analytes are trapped & focused. The analytes are then thermally desorbed into a GC-MSD for analysis. Test results are not blank corrected unless indicated by a qualifier.</p> <p>Canister samples will be retained for 7 calendar days after final report. If you require a longer canister storage time, please contact your account manager.</p>			
XYLENES-SUM-CALC-WT	Canister	Sum of Xylene Isomer Concentrations	CALCULATION

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
WT	ALS ENVIRONMENTAL - WATERLOO, ONTARIO, CANADA

Chain of Custody Numbers:

Reference Information

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid weight of sample

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 1 of 6

Client: RUBICON ENVIRONMENTAL INC.
60 Toronto St
Flesherton ON N0C 1E0

Contact: Paul Rew

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
CAN-DATA-WT		Canister						
Batch	R5512895							
WG3569282-1	MB							
Pressure on Receipt			-29.8		in Hg			05-JUL-21
FIXED GASES-L-FID-WT		Canister						
Batch	R5513172							
WG3567890-3	DUP	L2605307-1						
Carbon Dioxide		0.058	0.058		%	0.4	30	02-JUL-21
Carbon Monoxide		<0.00010	<0.00010	RPD-NA	%	N/A	30	02-JUL-21
Methane		0.00030	0.00025		%	17	30	02-JUL-21
WG3567890-2	LCS							
Carbon Dioxide			100.5		%		70-130	02-JUL-21
Carbon Monoxide			102.8		%		70-130	02-JUL-21
Methane			98.0		%		70-130	02-JUL-21
WG3567890-1	MB							
Carbon Dioxide			<0.0010		%		0.001	02-JUL-21
Carbon Monoxide			<0.00010		%		0.0001	02-JUL-21
Methane			<0.00010		%		0.0001	02-JUL-21
FIXED GASES-TCD-WT		Canister						
Batch	R5513106							
WG3565531-3	DUP	L2605307-1						
Nitrogen		77.3	78.0		%	0.9	30	28-JUN-21
Oxygen		21.2	21.3		%	0.8	30	28-JUN-21
WG3565531-2	LCS							
Nitrogen			104.0		%		70-130	28-JUN-21
Oxygen			104.7		%		70-130	28-JUN-21
WG3565531-1	MB							
Nitrogen			<1.0		%		1	28-JUN-21
Oxygen			<0.10		%		0.1	28-JUN-21
VOC-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-4	DUP	L2605307-8						
1,1,1-Trichloroethane		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,1-Dichloroethane		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,1-Dichloroethene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,2,4-Trichlorobenzene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,2-Dichlorobenzene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21



Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 2 of 6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-4	DUP	L2605307-8						
1,4-Dioxane		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Acetone		4.8	4.7		ppb(V)	2.3	30	07-JUL-21
Bromomethane		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Chlorobenzene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
cis-1,2-Dichloroethene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Ethylbenzene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
m&p-Xylene		<0.40	<0.40	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Methyl ethyl ketone		0.33	0.30		ppb(V)	8.9	30	07-JUL-21
Methyl isobutyl ketone		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Methylene chloride		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
MTBE		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
n-Hexane		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
o-Xylene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Styrene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Tetrachloroethylene		1.02	1.00		ppb(V)	2.0	30	07-JUL-21
Toluene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
trans-1,2-Dichloroethene		<0.20	<0.20	RPD-NA	ppb(V)	N/A	30	07-JUL-21
WG3569132-2		LCS						
1,1,1-Trichloroethane			99.7		%		70-130	06-JUL-21
1,1-Dichloroethane			101.3		%		70-130	06-JUL-21
1,1-Dichloroethene			94.6		%		70-130	06-JUL-21
1,2,4-Trichlorobenzene			80.0		%		70-130	06-JUL-21
1,2-Dichlorobenzene			93.7		%		70-130	06-JUL-21
1,4-Dioxane			102.8		%		70-130	06-JUL-21
Acetone			99.2		%		70-130	06-JUL-21
Bromomethane			96.5		%		70-130	06-JUL-21
Chlorobenzene			101.3		%		70-130	06-JUL-21
cis-1,2-Dichloroethene			100.2		%		70-130	06-JUL-21
Ethylbenzene			105.7		%		70-130	06-JUL-21
m&p-Xylene			107.5		%		70-130	06-JUL-21
Methyl ethyl ketone			103.5		%		70-130	06-JUL-21
Methyl isobutyl ketone			105.5		%		70-130	06-JUL-21
Methylene chloride			102.4		%		70-130	06-JUL-21
MTBE			101.7		%		70-130	06-JUL-21



Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 3 of 6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-2	LCS							
n-Hexane			101.9		%		70-130	06-JUL-21
o-Xylene			106.7		%		70-130	06-JUL-21
Styrene			94.5		%		70-130	06-JUL-21
Tetrachloroethylene			102.1		%		70-130	06-JUL-21
Toluene			106.1		%		70-130	06-JUL-21
trans-1,2-Dichloroethene			99.2		%		70-130	06-JUL-21
WG3569132-1	MB							
1,1,1-Trichloroethane			<0.20		ppb(V)		0.2	06-JUL-21
1,1-Dichloroethane			<0.20		ppb(V)		0.2	06-JUL-21
1,1-Dichloroethene			<0.20		ppb(V)		0.2	06-JUL-21
1,2,4-Trichlorobenzene			<0.20		ppb(V)		0.2	06-JUL-21
1,2-Dichlorobenzene			<0.20		ppb(V)		0.2	06-JUL-21
1,4-Dioxane			<0.20		ppb(V)		0.2	06-JUL-21
Acetone			<0.50		ppb(V)		0.5	06-JUL-21
Bromomethane			<0.20		ppb(V)		0.2	06-JUL-21
Chlorobenzene			<0.20		ppb(V)		0.2	06-JUL-21
cis-1,2-Dichloroethene			<0.20		ppb(V)		0.2	06-JUL-21
Ethylbenzene			<0.20		ppb(V)		0.2	06-JUL-21
m&p-Xylene			<0.40		ppb(V)		0.4	06-JUL-21
Methyl ethyl ketone			<0.20		ppb(V)		0.2	06-JUL-21
Methyl isobutyl ketone			<0.20		ppb(V)		0.2	06-JUL-21
Methylene chloride			<0.20		ppb(V)		0.2	06-JUL-21
MTBE			<0.20		ppb(V)		0.2	06-JUL-21
n-Hexane			<0.20		ppb(V)		0.2	06-JUL-21
o-Xylene			<0.20		ppb(V)		0.2	06-JUL-21
Styrene			<0.20		ppb(V)		0.2	06-JUL-21
Tetrachloroethylene			<0.20		ppb(V)		0.2	06-JUL-21
Toluene			<0.20		ppb(V)		0.2	06-JUL-21
trans-1,2-Dichloroethene			<0.20		ppb(V)		0.2	06-JUL-21
Surrogate: 4-Bromofluorobenzene			86.7		%		70-130	06-JUL-21
VOC-L-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-4	DUP	L2605307-8						
1,1,1,2-Tetrachloroethane		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21



Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 4 of 6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-L-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-4	DUP	L2605307-8						
1,1,2,2-Tetrachloroethane		<0.010	<0.010	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,1,2-Trichloroethane		<0.010	<0.010	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,2-Dibromoethane		<0.010	<0.010	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,2-Dichloroethane		<0.010	<0.010	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,2-Dichloropropane		<0.030	<0.030	RPD-NA	ppb(V)	N/A	30	07-JUL-21
1,4-Dichlorobenzene		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Benzene		0.042	0.041		ppb(V)	2.0	30	07-JUL-21
Bromoform		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Carbon Tetrachloride		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Chloroform		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
cis-1,3-Dichloropropene		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Hexachlorobutadiene		<0.010	<0.010	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Naphthalene		<0.050	<0.050	RPD-NA	ppb(V)	N/A	30	07-JUL-21
trans-1,3-Dichloropropene		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Trichloroethylene		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
Vinyl chloride		<0.020	<0.020	RPD-NA	ppb(V)	N/A	30	07-JUL-21
WG3569132-2	LCS							
1,1,1,2-Tetrachloroethane			101.8		%		70-130	06-JUL-21
1,1,2,2-Tetrachloroethane			102.4		%		70-130	06-JUL-21
1,1,2-Trichloroethane			100.9		%		70-130	06-JUL-21
1,2-Dibromoethane			100.0		%		70-130	06-JUL-21
1,2-Dichloroethane			97.9		%		70-130	06-JUL-21
1,2-Dichloropropane			98.8		%		70-130	06-JUL-21
1,4-Dichlorobenzene			92.9		%		70-130	06-JUL-21
Benzene			98.2		%		70-130	06-JUL-21
Bromoform			100.2		%		70-130	06-JUL-21
Carbon Tetrachloride			99.0		%		70-130	06-JUL-21
Chloroform			95.2		%		70-130	06-JUL-21
cis-1,3-Dichloropropene			97.0		%		70-130	06-JUL-21
Hexachlorobutadiene			86.8		%		70-130	06-JUL-21
Naphthalene			86.6		%		70-130	06-JUL-21
trans-1,3-Dichloropropene			96.9		%		70-130	06-JUL-21
Trichloroethylene			99.9		%		70-130	06-JUL-21
Vinyl chloride			92.9		%		70-130	06-JUL-21
WG3569132-1	MB							



Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 5 of 6

Test	Matrix	Reference	Result	Qualifier	Units	RPD	Limit	Analyzed
VOC-L-GCMS-WT		Canister						
Batch	R5513591							
WG3569132-1	MB							
1,1,1,2-Tetrachloroethane			<0.020		ppb(V)		0.02	07-JUL-21
1,1,2,2-Tetrachloroethane			<0.010		ppb(V)		0.01	07-JUL-21
1,1,2-Trichloroethane			<0.010		ppb(V)		0.01	07-JUL-21
1,2-Dibromoethane			<0.010		ppb(V)		0.01	07-JUL-21
1,2-Dichloroethane			<0.010		ppb(V)		0.01	07-JUL-21
1,2-Dichloropropane			<0.030		ppb(V)		0.03	07-JUL-21
1,4-Dichlorobenzene			<0.020		ppb(V)		0.02	07-JUL-21
Benzene			<0.020		ppb(V)		0.02	07-JUL-21
Bromoform			<0.020		ppb(V)		0.02	07-JUL-21
Carbon Tetrachloride			<0.020		ppb(V)		0.02	07-JUL-21
Chloroform			<0.020		ppb(V)		0.02	07-JUL-21
cis-1,3-Dichloropropene			<0.020		ppb(V)		0.02	07-JUL-21
Hexachlorobutadiene			<0.010		ppb(V)		0.01	07-JUL-21
Naphthalene			<0.050		ppb(V)		0.05	07-JUL-21
trans-1,3-Dichloropropene			<0.020		ppb(V)		0.02	07-JUL-21
Trichloroethylene			<0.020		ppb(V)		0.02	07-JUL-21
Vinyl chloride			<0.020		ppb(V)		0.02	07-JUL-21
Surrogate: 4-Bromofluorobenzene			93.5		%		70-130	07-JUL-21

Quality Control Report

Workorder: L2605307

Report Date: 09-JUL-21

Page 6 of 6

Legend:

Limit	ALS Control Limit (Data Quality Objectives)
DUP	Duplicate
RPD	Relative Percent Difference
N/A	Not Available
LCS	Laboratory Control Sample
SRM	Standard Reference Material
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ADE	Average Desorption Efficiency
MB	Method Blank
IRM	Internal Reference Material
CRM	Certified Reference Material
CCV	Continuing Calibration Verification
CVS	Calibration Verification Standard
LCSD	Laboratory Control Sample Duplicate

Sample Parameter Qualifier Definitions:

Qualifier	Description
RPD-NA	Relative Percent Difference Not Available due to result(s) being less than detection limit.

Hold Time Exceedances:

All test results reported with this submission were conducted within ALS recommended hold times.

ALS recommended hold times may vary by province. They are assigned to meet known provincial and/or federal government requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by the US EPA, APHA Standard Methods, or Environment Canada (where available). For more information, please contact ALS.

The ALS Quality Control Report is provided to ALS clients upon request. ALS includes comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against pre-determined data quality objectives to provide confidence in the accuracy of associated test results.

Please note that this report may contain QC results from anonymous Sample Duplicates and Matrix Spikes that do not originate from this Work Order.



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210312.303	01400-0277	1,1,1-Trichloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,1,2-Trichloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,1-Dichloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,1-Dichloroethene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2,4-Trichlorobenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2,4-Trimethylbenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2-Dibromoethane	<0.01	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2-Dichlorobenzene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2-Dichloroethane	<0.01	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,2-Dichloropropane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,3,5-Trimethylbenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,3-Butadiene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,3-Dichlorobenzene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,4-Dichlorobenzene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	1,4-Dioxane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	2-Chlorophenol	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	2-Hexanone	<1.0	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	4-Ethyltoluene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Acetone	<0.50	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Acrolein	<0.10	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Allyl Chloride	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Benzene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Benzyl Chloride	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Bromodichloromethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Bromobenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Bromoform	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Bromomethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Carbon Disulfide	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Carbon Tetrachloride	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Chlorobenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Chloroethane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Chloroform	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Chloromethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	cis-1,2-Dichloroethene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	cis-1,3-Dichloropropene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Cyclohexane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Dibromochloromethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Dichlorodifluoromethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Ethyl Acetate	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Ethyl Benzene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Freon 113	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Freon 114	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Hexachlorobutadiene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Isooctane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Isopropyl Alcohol	<1.0	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Isopropylbenzene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	m&p-Xylene	<0.04	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Methyl Ethyl Ketone	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Methylcyclohexane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Methyl Isobutyl Ketone	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Methylene Chloride	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	MTBE	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Naphthalene	<0.05	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	n-Decane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	n-Heptane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	n-Hexane	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	o-Xylene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Propylene	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Styrene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Tetrachloroethylene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Tetrahydrofuran	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Toluene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	trans-1,2-Dichloroethene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	trans-1,3-Dichloropropene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Trichloroethylene	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Trichlorofluoromethane	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Vinyl Acetate	<0.50	ppb(V)	26-Mar-21	CG2

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B210312.303	01400-0277	Vinyl Bromide	<0.20	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	Vinyl Chloride	<0.02	ppb(V)	26-Mar-21	CG2
B210312.303	01400-0277	4-Bromofluorobenzene	96.8	%	26-Mar-21	CG2



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210406.117	06000-0352	1,1,1-Trichloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,1,2-Trichloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,1-Dichloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,1-Dichloroethene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2,4-Trichlorobenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2,4-Trimethylbenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2-Dibromoethane	<0.01	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2-Dichlorobenzene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2-Dichloroethane	<0.01	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,2-Dichloropropane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,3,5-Trimethylbenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,3-Butadiene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,3-Dichlorobenzene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,4-Dichlorobenzene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	1,4-Dioxane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	2-Chlorophenol	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	2-Hexanone	<1.0	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	4-Ethyltoluene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Acetone	<0.50	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Acrolein	<0.10	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Allyl Chloride	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Benzene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Benzyl Chloride	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Bromodichloromethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Bromobenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Bromoform	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Bromomethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Carbon Disulfide	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Carbon Tetrachloride	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Chlorobenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Chloroethane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Chloroform	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Chloromethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	cis-1,2-Dichloroethene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	cis-1,3-Dichloropropene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Cyclohexane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Dibromochloromethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Dichlorodifluoromethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Ethyl Acetate	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Ethyl Benzene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Freon 113	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Freon 114	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Hexachlorobutadiene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Isooctane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Isopropyl Alcohol	<1.0	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Isopropylbenzene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	m&p-Xylene	<0.04	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Methyl Ethyl Ketone	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Methylcyclohexane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Methyl Isobutyl Ketone	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Methylene Chloride	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	MTBE	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Naphthalene	<0.05	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	n-Decane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	n-Heptane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	n-Hexane	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	o-Xylene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Propylene	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Styrene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Tetrachloroethylene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Tetrahydrofuran	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Toluene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	trans-1,2-Dichloroethene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	trans-1,3-Dichloropropene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Trichloroethylene	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Trichlorofluoromethane	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Vinyl Acetate	<0.50	ppb(V)	12-Apr-21	DT1

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B210406.117	06000-0352	Vinyl Bromide	<0.20	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	Vinyl Chloride	<0.02	ppb(V)	12-Apr-21	DT1
B210406.117	06000-0352	4-Bromofluorobenzene	107.4	%	12-Apr-21	DT1



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210422.117	06000-0108	1,1,1-Trichloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,1,2-Trichloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,1-Dichloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,1-Dichloroethene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2,4-Trichlorobenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2,4-Trimethylbenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2-Dibromoethane	<0.01	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2-Dichlorobenzene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2-Dichloroethane	<0.01	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,2-Dichloropropane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,3,5-Trimethylbenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,3-Butadiene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,3-Dichlorobenzene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,4-Dichlorobenzene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	1,4-Dioxane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	2-Chlorophenol	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	2-Hexanone	<1.0	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	4-Ethyltoluene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Acetone	<0.50	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Acrolein	<0.10	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Allyl Chloride	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Benzene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Benzyl Chloride	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Bromodichloromethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Bromobenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Bromoform	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Bromomethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Carbon Disulfide	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Carbon Tetrachloride	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Chlorobenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Chloroethane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Chloroform	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Chloromethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	cis-1,2-Dichloroethene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	cis-1,3-Dichloropropene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Cyclohexane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Dibromochloromethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Dichlorodifluoromethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Ethyl Acetate	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Ethyl Benzene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Freon 113	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Freon 114	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Hexachlorobutadiene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Isooctane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Isopropyl Alcohol	<1.0	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Isopropylbenzene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	m&p-Xylene	<0.04	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Methyl Ethyl Ketone	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Methylcyclohexane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Methyl Isobutyl Ketone	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Methylene Chloride	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	MTBE	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Naphthalene	<0.05	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	n-Decane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	n-Heptane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	n-Hexane	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	o-Xylene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Propylene	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Styrene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Tetrachloroethylene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Tetrahydrofuran	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Toluene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	trans-1,2-Dichloroethene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	trans-1,3-Dichloropropene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Trichloroethylene	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Trichlorofluoromethane	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Vinyl Acetate	<0.50	ppb(V)	6-May-21	DT1

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B210422.117	06000-0108	Vinyl Bromide	<0.20	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	Vinyl Chloride	<0.02	ppb(V)	6-May-21	DT1
B210422.117	06000-0108	4-Bromofluorobenzene	93.7	%	6-May-21	DT1



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210505.114	06000-0196	1,1,1-Trichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,1,2-Trichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,1-Dichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,1-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2,4-Trichlorobenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2,4-Trimethylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2-Dibromoethane	<0.01	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2-Dichloroethane	<0.01	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,2-Dichloropropane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,3,5-Trimethylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,3-Butadiene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,3-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,4-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	1,4-Dioxane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	2-Chlorophenol	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	2-Hexanone	<1.0	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	4-Ethyltoluene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Acetone	<0.50	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Acrolein	<0.10	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Allyl Chloride	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Benzene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Benzyl Chloride	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Bromodichloromethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Bromobenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Bromoform	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Bromomethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Carbon Disulfide	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Carbon Tetrachloride	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Chlorobenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Chloroethane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Chloroform	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Chloromethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	cis-1,2-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	cis-1,3-Dichloropropene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Cyclohexane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Dibromochloromethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Dichlorodifluoromethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Ethyl Acetate	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Ethyl Benzene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Freon 113	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Freon 114	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Hexachlorobutadiene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Isooctane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Isopropyl Alcohol	<1.0	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Isopropylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	m&p-Xylene	<0.04	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Methyl Ethyl Ketone	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Methylcyclohexane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Methyl Isobutyl Ketone	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Methylene Chloride	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	MTBE	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Naphthalene	<0.05	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	n-Decane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	n-Heptane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	n-Hexane	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	o-Xylene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Propylene	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Styrene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Tetrachloroethylene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Tetrahydrofuran	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Toluene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	trans-1,2-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	trans-1,3-Dichloropropene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Trichloroethylene	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Trichlorofluoromethane	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Vinyl Acetate	<0.50	ppb(V)	21-May-21	DT1

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B210505.114	06000-0196	Vinyl Bromide	<0.20	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	Vinyl Chloride	<0.02	ppb(V)	21-May-21	DT1
B210505.114	06000-0196	4-Bromofluorobenzene	98.0	%	21-May-21	DT1



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210511.105	06000-0154	1,1,1-Trichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,1,2-Trichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,1-Dichloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,1-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2,4-Trichlorobenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2,4-Trimethylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2-Dibromoethane	<0.01	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2-Dichloroethane	<0.01	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,2-Dichloropropane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,3,5-Trimethylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,3-Butadiene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,3-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,4-Dichlorobenzene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	1,4-Dioxane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	2-Chlorophenol	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	2-Hexanone	<1.0	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	4-Ethyltoluene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Acetone	<0.50	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Acrolein	<0.10	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Allyl Chloride	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Benzene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Benzyl Chloride	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Bromodichloromethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Bromobenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Bromoform	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Bromomethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Carbon Disulfide	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Carbon Tetrachloride	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Chlorobenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Chloroethane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Chloroform	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Chloromethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	cis-1,2-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	cis-1,3-Dichloropropene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Cyclohexane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Dibromochloromethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Dichlorodifluoromethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Ethyl Acetate	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Ethyl Benzene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Freon 113	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Freon 114	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Hexachlorobutadiene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Isooctane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Isopropyl Alcohol	<1.0	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Isopropylbenzene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	m&p-Xylene	<0.04	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Methyl Ethyl Ketone	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Methylcyclohexane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Methyl Isobutyl Ketone	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Methylene Chloride	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	MTBE	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Naphthalene	<0.05	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	n-Decane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	n-Heptane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	n-Hexane	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	o-Xylene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Propylene	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Styrene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Tetrachloroethylene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Tetrahydrofuran	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Toluene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	trans-1,2-Dichloroethene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	trans-1,3-Dichloropropene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Trichloroethylene	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Trichlorofluoromethane	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Vinyl Acetate	<0.50	ppb(V)	21-May-21	DT1

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B210511.105	06000-0154	Vinyl Bromide	<0.20	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	Vinyl Chloride	<0.02	ppb(V)	21-May-21	DT1
B210511.105	06000-0154	4-Bromofluorobenzene	99.2	%	21-May-21	DT1



Batch Proof Report

Batch ID	Canister ID	Parameters	Value	Units	Date	Analyst
B210519.119	06000-0222	1,1,1-Trichloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,1,1,2-Tetrachloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,1,2,2-Tetrachloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,1,2-Trichloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,1-Dichloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,1-Dichloroethene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2,4-Trichlorobenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2,4-Trimethylbenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2-Dibromoethane	<0.01	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2-Dichlorobenzene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2-Dichloroethane	<0.01	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,2-Dichloropropane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,3,5-Trimethylbenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,3-Butadiene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,3-Dichlorobenzene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,4-Dichlorobenzene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	1,4-Dioxane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	2-Chlorophenol	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	2-Hexanone	<1.0	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	4-Ethyltoluene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Acetone	<0.50	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Acrolein	<0.10	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Allyl Chloride	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Benzene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Benzyl Chloride	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Bromodichloromethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Bromobenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Bromoform	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Bromomethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Carbon Disulfide	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Carbon Tetrachloride	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Chlorobenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Chloroethane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Chloroform	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Chloromethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	cis-1,2-Dichloroethene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	cis-1,3-Dichloropropene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Cyclohexane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Dibromochloromethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Dichlorodifluoromethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Ethyl Acetate	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Ethyl Benzene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Freon 113	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Freon 114	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Hexachlorobutadiene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Isooctane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Isopropyl Alcohol	<1.0	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Isopropylbenzene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	m&p-Xylene	<0.04	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Methyl Ethyl Ketone	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Methylcyclohexane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Methyl Isobutyl Ketone	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Methylene Chloride	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	MTBE	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Naphthalene	<0.05	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	n-Decane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	n-Heptane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	n-Hexane	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	o-Xylene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Propylene	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Styrene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Tetrachloroethylene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Tetrahydrofuran	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Toluene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	trans-1,2-Dichloroethene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	trans-1,3-Dichloropropene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Trichloroethylene	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Trichlorofluoromethane	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Vinyl Acetate	<0.50	ppb(V)	31-May-21	DT1

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B210519.119	06000-0222	Vinyl Bromide	<0.20	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	Vinyl Chloride	<0.02	ppb(V)	31-May-21	DT1
B210519.119	06000-0222	4-Bromofluorobenzene	94.6	%	31-May-21	DT1



L2605307-COFC

Handwritten initials in the top right corner.

60 NORTHLAND WATER CO. UNIT

Phone: (519) 886-6111

Fax: (519) 886-9047

Toll Free: 1-800-668-8875

QUALITY CHAIN OF CUSTODY FORM - Canister/Tube/Gas Bag

Page 1 of 1

NOTE: All TAT (outed) is in business days which exclude Saturdays, Sundays and public holidays. TAT of samples received past 5:00 pm on Saturday / Sunday begin on Monday.

LAB REQUIRED

SERVICE REQUESTED

Rush 3 day (00A)

10 day (regular)

Rush 2 day (200A)

Rush 5 day (50X)

Rush 1 day (300A) - Faculty

COMPANY NAME: Radicon Environmental (2000) Inc. OFFICE: 661 Toronto Rd. Brampton. PROJECT MANAGER: Paul Lew. PROJECT #: R63048. PHONE: 519-412-7303. ACCOUNT #: Q6327. QUOTATION #: 103.

REGISTRATION: OFFICE. OTHER INFORMATION. REPORT FORMAT/DISTRIBUTION: EMAIL, FAX, BOTH. SELECT PDF, DIGITAL, BOTH. EMAIL 1: paul.lew@radicon.com. EMAIL 2: paul.lew@radicon.com.

ANALYSE REQUEST. TUBE AIR VOLUME: 6 or 1 m. VOLUME - R153-1A-WP. FIXED VAPORS - ING-UT. PREP - CANISTER - 100T. STARTING PRESSURE - Pre-Sampling (140). ENDING PRESSURE - Post-Sampling (141). COLLECTION TIME (HR):

LAB APPROVAL. All work requires lab approval before sample submission. COMMISSIONER: L2605307. ENTERED BY: DATE/TIME ENTERED. BN #:

Table with columns: Sample Date/Time, Time (24hr), Canister or Tube ID#, Regulation, Matrix Type, Sample Description to Appear on Report, Field Conditions (Rain/Wind/Cloud/Temp), Field PID Reading, LAB ID. Rows include samples like 'Indoor 250', 'Indoor 246', 'Outdoor', 'VP 101', 'VP 102', 'VP 103', 'VP 104'.

SPECIAL INSTRUCTIONS/COMMENTS: Fish Chain of Custody Form is only to be used for All Quality Samples. SAMPLE CONDITIONS AS RECEIVED: FROZEN, COLD, COOLING INITIATED, AMBIENT. DATE/TIME: June 23/21 10:25. OBSERVATIONS: Yes, No, If yes add SIF.

1. Copies of this form may be provided to other project users. 2. TAT may vary dependent on complexity of analysis and lab workload at time of submission. 3. Any samples or equipment that are not returned to a sample may be noted on the Chain of Custody Form as per section 10.0.

Appendix 3 Previous Environmental Site Assessment Report





308 Wellington Street
2nd Floor
Kingston, ON K7K 7A8
Canada

613-548-3446
www.malroz.com

via: email

December 16, 2019
File: 917-110.01

Richard Barker
Advisor, Environmental Remediation
Environmental Remediation Unit
City of Ottawa
richard.barker@ottawa.ca

Subject: Supplementary Assessment of Soil Vapour
Rochester Street Right of Way, Ottawa, Ontario

Dear Mr. Barker:

Malroz Engineering Inc. (Malroz) was retained by the City of Ottawa (the City) to conduct a soil vapour assessment at previously sampled locations within the Rochester Street right of way (ROW), between the intersection of Balsam Street and Willow Street in Ottawa, Ontario (the subject site).

The objective of this work was to continue to evaluate potential risks/impacts related to a chlorinated volatile organic compound (cVOC) groundwater plume inferred to emanate from an upgradient property.

This letter summarizes methodologies, results and conclusions arising from the soil vapour sampling program.

1.0 Background

An inferred chlorinated solvent contaminant plume along the Rochester Street ROW was identified by Malroz in our Remedial Options Assessment letter, dated May 12, 2015. The letter included a review of data collected by others, from a group of properties near the intersection of Rochester and Balsam Street (the source site). The source site was reportedly impacted by historic dry-cleaning operations and was proposed to be developed into condominiums. The data suggested that a groundwater contaminant plume comprising of toluene, tetrachloroethylene (PCE), trichloroethylene (TCE), dichloroethylene (DCE), vinyl chloride, and chloroform has migrated into the Rochester and Balsam Street ROWs, owned by the City, however, limited data was provided on the groundwater flow direction and quality.

In 2017, GHD completed Phase 1 and 2 Environmental Site Assessments (ESAs) of a property owned by the Ottawa Community Housing Corporation (OCHC), located south of the source site on Balsam Street. The GHD groundwater flow direction was reportedly west-northwest, supporting the conceptual understanding that the Rochester Street ROW

is downgradient of the source site and may be impacted by the chlorinated solvent plume. This work did not identify groundwater impacts associated with the dry-cleaning contaminant plume on the OCHC property.

Malroz conducted a preliminary soil vapour assessment at the subject site in May, 2018¹ (Event #1). Four soil vapour probes (SVPs) were installed along the Rochester Street ROW and soil vapour samples were collected at each SVP. Results from the sampling indicated that measurable concentrations of toluene, chloroform, methylene chloride, PCE, and TCE were reported at one or more of the soil vapour points. However, reported concentrations of these contaminants were below calculated maximum acceptable vapour intrusion target levels (VITLs) for residential property use. Considering the variability of soil vapour data, additional sampling was recommended to confirm the results from the preliminary soil vapour assessment.

Malroz completed two additional soil vapour sampling events at the subject site in April (Event #2) and July, 2019 (Event #3)². During each event, soil vapour samples were collected from the four previously installed SVPs. Results from Event #2 indicated that measurable concentrations of PCE were reported at each of the SVPs, and were below VITLs. However, concentrations of PCE at SVP102 were only slightly below (3-12 µg/m³) the corresponding VITL. Results from Event #3 indicated that concentrations of PCE at SVP102 and SVP103 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP104, however, the measured concentrations met the VITL. Given the exceedances of VITLs at SVP102 and SVP103 during Event #3, an additional sampling event was recommended in the fall of 2019 to confirm the results and to further assess seasonal and temporal variability.

2.0 Methodology

Malroz undertook additional soil vapour sampling in accordance with our proposal dated October 11, 2019. The proposal comprised the following activities:

- Collect one soil vapour sample from each of the previously installed SVPs and monitor accessible manholes and catch basins during the fall of 2019 (Event #4).
- Collect one duplicate sample for quality assurance and control purposes.

A brief summary of the soil vapour sampling methodology and QA/QC program are provided in the subsections which follow.

¹ Malroz Engineering Inc. (2018, September 6). *Preliminary Soil Vapour Assessment, Rochester Street Right of Way, Ottawa, Ontario*. Prepared for the City of Ottawa. File No. 917-104.00.

² Malroz Engineering Inc. (2019, September 7). *Additional Assessment of Soil Vapour, Rochester Street Right of Way Ottawa, Ontario*. Prepared for the City of Ottawa. File No. 917-108.01.

2.1 Soil Vapour Sampling Event #4

Soil vapour samples were collected from previously installed SVPs (see Figure 1, attached) on October 30, 2019. Soil vapour sampling methods were consistent with those described by Malroz in two previous soil vapour assessment reports^{1,2}. Samples were submitted to Bureau Veritas Laboratories (BV) for analyses of the following contaminants of concern (COC) using United States Environmental Protection Agency (USEPA) Method TO-15:

- Chloroform
- Chloroethane
- Methylene Chloride (Dichloromethane)
- Toluene
- Tetrachloroethylene (PCE)
- Trichloroethylene (TCE)
- 1, 1 - Dichloroethylene
- 1, 2 - Dichloroethylene
- Vinyl chloride

Prior to sampling, a GilAir pump was used to draw soil vapours into a Tedlar bag inside a lung box at each sample location. The soil vapours inside the bag were measured for combustible and organic vapours using an RKI Eagle 2 with a combustible gas indicator (CGI) and photoionization detector (PID) as a screening level assessment.

Consistent with past practice, Malroz recorded weather conditions and sample canister pressures (see Tables 1 and 2, attached).

2.2 QA/QC Program

A laboratory and field quality assurance and quality control (QA/QC) program was undertaken to assist in informing whether the soil vapour analytical data were interpretable, meaningful, and reproducible. The QA/QC program for Event #4 was consistent with the approach described in two previous soil vapour assessment reports prepared by Malroz^{1,2}. A duplicate sample was collected at SVP102 during Event #4.

3.0 Site Evaluation Screening Criteria

Soil vapour standards are not published by the Ministry of Environment, Conservation and Parks (MECP), however, appropriate screening criteria for evaluating the vapour intrusion pathway may be derived using the methods described by the MECP^{3,4}. These documents prescribe a generic approach for evaluating the vapour intrusion pathway and include published acceptable human health-based indoor air concentrations (HBIACs) which have been calculated using toxicity reference values and specific exposure scenarios based on property use.

³ Ministry of Environment, Conservation and Parks (April, 2011). *Rationale for the Development of Soil and Ground Water Standards for use at Contaminated Sites in Ontario*.

⁴ Ministry of Environment, Conservation and Parks (September, 2013). *Draft Technical Guidance: Soil Vapour Intrusion Assessment*.

HBIACs were referenced from the MECP's *Modified Generic Risk Assessment "Approved Model"* (last updated November 1, 2016), the currently available MECP model.

VITLs are derived from HBIACs by applying an attenuation factor that accounts for various attenuation parameters (e.g. air exchange, migration through a concrete floor slab, and dilution). The VITLs represent sub-slab vapour concentrations that may be expected to cause unacceptable indoor air concentrations via the vapour intrusion pathway. Soil vapour data collected in the course of our investigation is evaluated against VITLs.

Malroz calculated VITLs by dividing the HBIACs by an attenuation factor of 0.02. The selected HBIACs and attenuation factors are applicable for assessment of risk associated with residential property use.

4.0 Results

The subsections that follow summarize the results of soil vapour sampling conducted on October 30, 2019 (Event #4).

4.1 Soil Vapour Sampling

Weather data recorded prior to sampling is provided in Table 1. Silonite canister pressures recorded by Malroz prior to and following sampling, and recorded by BV prior to analyses are provided in Table 2. BV reported that pressures indicated residual vacuum remained at the completion of the sampling period and suggest that the samples were not compromised during transportation to the laboratory.

Field screening of combustible and organic vapours from a Tedlar bag, recorded prior to soil vapour sampling, and from accessible nearby catch basins, are provided in Table 3. Screening concentrations of measurable combustible gas (full gas response) were observed between 10 and 70 ppm at SVPs. An organic vapour concentration of 1 ppm was recorded at SVP101, while concentrations were below the detectable range of the instrument at other SVPs.

Combustible and organic vapours were generally observed to be below the measurable range of the instrument at catch basins and manholes, with the exception of catch basins CB1 and CB8 (Figure 1, attached) where relatively low concentrations (5-15 ppm) of combustible vapours were measured.

Results of laboratory analyses from sampling Event #4 are summarized in Table 4 (attached). Reported concentrations of PCE at SVP102 exceeded the VITL. Measurable concentrations of PCE were also reported at SVP101 and SVP103, however, the measured concentrations met the VITL. PCE was not detected at SVP104.

Measurable concentrations of chloroform, toluene, and TCE were detected in one or more of the SVPs at concentrations below the corresponding VITLs. Concentrations of the other analyzed COCs were reported below the laboratory detection limits and VITLs.

4.2 QA/QC Results

A duplicate sample was collected at SVP102 for QA/QC purposes. Results of laboratory analyses of the duplicate sample indicated reasonable repeatability. Based on these results and the laboratory QA/QC, we are of the opinion that the results of the analyses can be relied upon.

5.0 Discussion and Recommendations

Results of laboratory analyses of soil vapour samples collected during the sampling event (Event #4) indicate that concentrations of PCE were more than 3 times greater than the VITL at SVP102. PCE concentrations at SVP101 and SVP103 were approximately 1/3 to 1/2 of the VITLs during Event #4, while PCE concentrations were below the laboratory reportable detection limits at SVP104.

Concentrations of PCE have varied significantly over four soil vapour sampling events (Table 5, attached). The highest measured PCE concentrations at SVP101, SVP102, and SVP103 occurred during Event #3 (July, 2019), where PCE concentrations were more than 13 times the VITL for PCE at SVP102 and more than 3 times the VITL for PCE at SVP103. The temporal variability of PCE concentrations at the four SVPs may reflect seasonal variation or other factors not yet identified.

The MECP provides a decision framework for recommended actions for vapour intrusion assessment based on measured concentrations of COCs and site screening levels (see Table 4 in MECP, 2013)³. In this framework, if measured concentrations of COCs in soil/sub-slab vapours are between 0.5 and 5 times greater than the corresponding screening level, consideration of additional subsurface characterization and/or a more direct assessment of potential indoor air impacts is recommended. If measured concentrations of COCs are greater than 5 times the corresponding screening level, the MECP recommends assessment of potential indoor air impacts and/or pre-emptive exposure controls.

Based on the results of soil vapour sampling Event #4, and with consideration to concentration trends of PCE in soil vapour over time, there is a potential risk to human health via the soil vapour intrusion pathway that may result in potential degradation of residential indoor air quality.

Soil vapour composition can be significantly influenced by climatic/seasonal variables (e.g. precipitation, temperature, barometric pressure, snow cover), temporal variability and variations in the water table. Sub-slab vapour and indoor air conditions at buildings adjacent to the Rochester Street ROW are unknown. Additional soil vapour sampling at other locations on the subject site and an assessment of sub-slab vapour and/or indoor air at buildings adjacent to the subject site would be required to further characterize vapour intrusion risks to human health.

Soil vapour data are limited to four locations in the Rochester Street ROW. There remains a possibility that the data from the four soil vapour sampling events do not represent worst-case conditions. Groundwater impacts identified by others at the source site and the subject site have not been fully delineated or characterized, therefore, the

magnitude and extent of the contaminant plume remains unknown. Lateral and vertical delineation of the contaminant plume is necessary to fully evaluate vapour intrusion risks.

Given the foregoing uncertainties, and the natural variability of soil vapour data, we offer the following recommendations for consideration:

- Install sub-slab vapour probes in select buildings adjacent to the subject site to further assess the vapour intrusion pathway and representativeness of the soil vapour data.
- Sample indoor air within the residential units of select buildings adjacent to the subject site to more directly assess potential human health risks associated with elevated soil vapour concentrations of COCs.
- Laterally and vertically delineate groundwater impacts to evaluate the extent, magnitude and stability of the contaminant plume.

6.0 Closure and Limitations

The findings reported in this document are based on the tasks completed by Malroz under the mutually agreed scope of work as a soil vapour sampling investigation. Professional judgement, experience with similar investigations, and available data collected within the scope of work, form the basis for this letter. Malroz has prepared this letter using information understood to be factual and correct, and shall not be responsible for conditions arising from information or facts that were inaccurate, concealed, or not fully disclosed at the time of investigation.

This document has been prepared by Malroz for the sole use of the City of Ottawa in assessing the soil vapour conditions in the Rochester Street ROW, Ottawa, Ontario. Unauthorized reuse of this document for any purpose, or by third parties, without the express written consent of Malroz, shall be at such party's sole risk without liability to Malroz. Malroz accepts no responsibility for damages, if any, suffered by any third party as a result of decisions or actions taken based on this report.

We appreciate the opportunity to work with you on this project and remain available to discuss our work, reported herein, with you.

Please contact the undersigned if you have any questions, comments, or concerns with respect to this document or the appended data.

Respectfully Submitted,

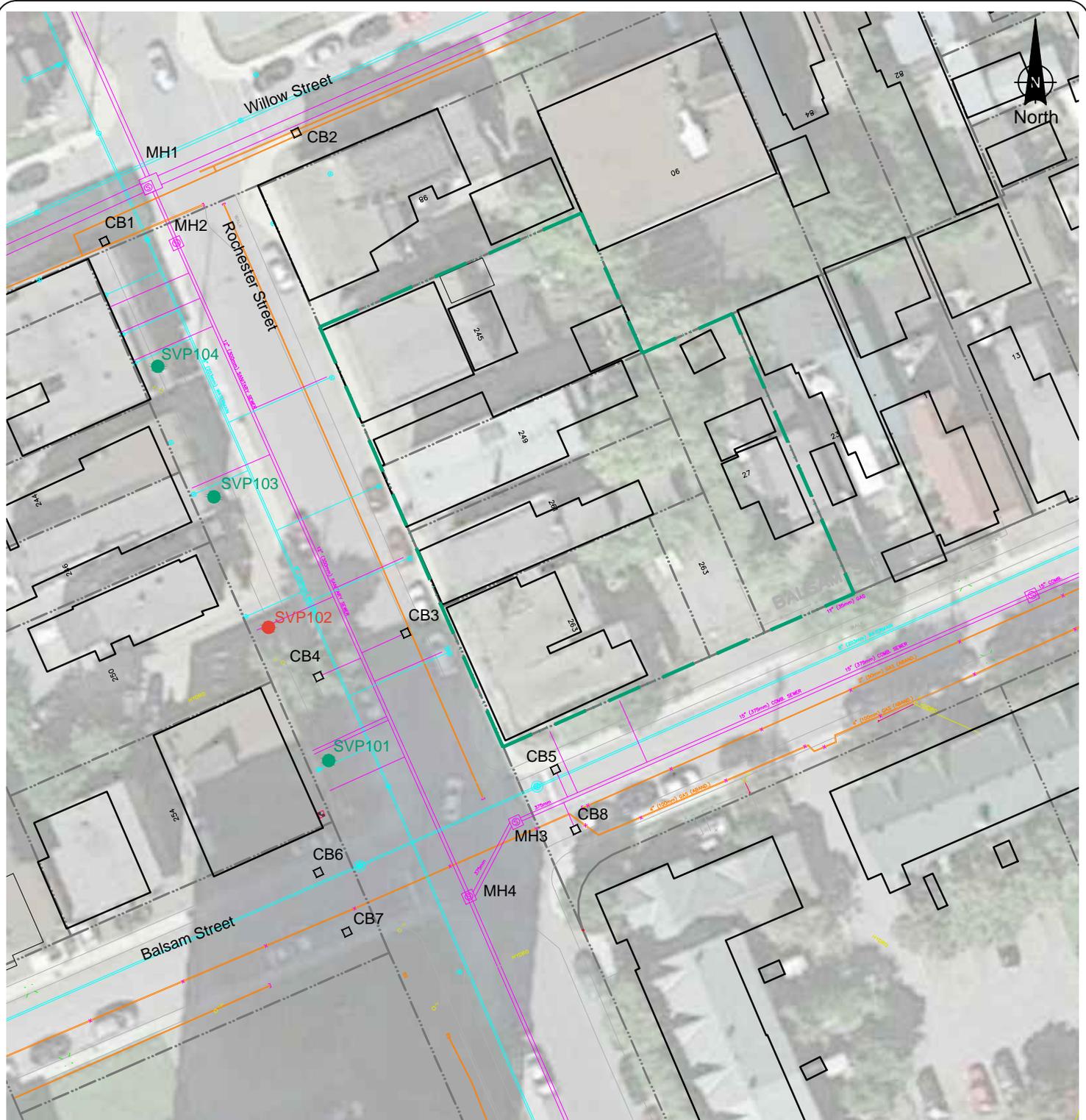
Malroz Engineering Inc.


per. Robert Varcoe, G.I.T.
Environmental Scientist


reviewed: David Carnegie, P. Eng.
Project Manager



- encl:
- Figure 1 Site Plan and Soil Vapour Analytical Results
 - Table 1 Site Specific Weather Data
 - Table 2 Sampling Canister Pressures
 - Table 3 Soil Vapour and Catch Basin Monitoring Results
 - Table 4 Soil Vapour Analytical Results (October 30, 2019)
 - Table 5 Historical Soil Vapour Analytical Results
- Laboratory Certificates of Analyses



Legend

--- approximate property line	□ CB1 catch basin
--- proposed condominium development (source site)	⊗ MH1 manhole
— building footprint	● SV1 soil vapour probe location meets Residential VITLs
— water main	● SV1 soil vapour probe location exceeds Residential VITLs
— sewer main	
— gas line	

Note: Figure based on Google Earth imagery, Malroz field observations, existing reports and utilities drawings supplied by The City of Ottawa.

Site Plan and Soil Vapour Analytical Results (October 30, 2019)

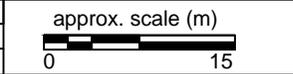
Supplementary Assessment of Soil Vapour
Rochester Street ROW
Ottawa, ON

File: 917-110.00

Figure



Rev	Date	Description	By	Chkd
R0	2019/11/16	issued in final	ZL	RV



1

**Table 1
Site Specific Weather Data**

Environment Canada ¹			Field Observations ²				
Average Atmospheric Pressure (kPa)	Total Precipitation (mm)	Humidity - Outdoor (%)	Location	Outdoor Ambient Air Pressure (kPa)	Air Temperature (°C)	Wind Speed (m/s)	Wind Direction
October 30, 2019							
101.28	5.2	83	SVP101	101.73	12.6	1.1	E
			SVP102	101.73	12.6	0.9	E
			SVP103	101.79	12.6	0.9	E
			SVP104	101.79	12.8	0.8	E

Notes:

kPa kilopascals

m/s meters per second

¹ data obtained from Environment Canada Ottawa RCS weather station

² data obtained from site measurements using a hand held Kestrel weather station

SVP### denotes soil vapour probe location

Data Input: RV

Data Check: ZL

**Table 2
Sampling Canister Pressures**

Sample ID	Canister Pressure at Start of Sampling		Canister Pressure at End of Sampling		Canister Pressure at Lab	
	in. Hg	kPa	in. Hg	kPa	in. Hg	kPa
October 30, 2019						
19-SV11	-27.0	-91.4	-3.5	-11.9	-2.2	-7.5
19-SV12	-26.8	-90.8	-2.9	-9.8	-1.4	-4.7
19-SV13	-26.5	-89.7	-4.2	-14.2	-2.5	-8.5
19-SV14	-26.0	-88.0	-3.9	-13.2	-2.3	-7.8
19-SV15	-27.4	-92.8	-4.1	-13.9	-2.5	-8.5

Notes:

in. Hg inches of mercury

kPa kilopascals

Data Input: RV

Data Check: ZL

Table 3
Soil Vapour and Catch Basin Monitoring Results

Location	CGI Full Gas Response (ppm)	CGI Methane Eliminated (ppm)	PID (ppm)
October 30, 2019			
SVP101	45	-	1
SVP102	70	-	nr
SVP103	10	-	nr
SVP104	55	-	nr
CB1	15	-	nr
CB2	nr	-	nr
CB3	nr	-	nr
CB4	nr	-	nr
CB5	nr	-	nr
CB6	nr	-	nr
CB7	nr	-	nr
CB8	5	-	nr
MH1	nr	-	nr
MH2	nr	-	nr
MH3	nr	-	nr
MH4	nr	-	nr

Notes:

nr no measurable response was detected
 - not analyzed when full gas response is less than 1% of LEL.

ppm parts per million

SVP### denotes soil vapour probe location

CB catch basin

MH manhole

Data Input: RV

Data Check: ZL

**Table 4
 Soil Vapour Analytical Results**

Parameter	Location		SVP101	SVP102	SVP103	SVP104	QA/QC	Maximum Acceptable VITLs - Residential ¹
	Sample ID	Date Sampled	19-SV15	19-SV13	19-SV12	19-SV11	19-SV14	
	Units	RDL	30-Oct-19	30-Oct-19	30-Oct-19	30-Oct-19	30-Oct-19	
Volatile Organic Compounds								
Chloroform	µg/m ³	0.488	1.44	<	<	<	<	1040
Chloroethane	µg/m ³	0.792	<	<	<	<	<	
Dichloroethylene, 1,1-	µg/m ³	0.396	<	<	<	<	<	730
Dichloroethylene, 1,2-cis-	µg/m ³	0.396	<	<	<	<	<	1560
Dichloroethylene, 1,2-trans-	µg/m ³	0.396	<	<	<	<	<	626
Methylene Chloride	µg/m ³	2.08	<	<	<	<	<	2420
Tetrachloroethylene	µg/m ³	0.678	68.8	783	103	<	794	214
Toluene	µg/m ³	0.377	<	2.14	<	0.613	3.86	52100
Trichloroethylene	µg/m ³	0.537	0.707	<	<	<	<	13.6
Vinyl Chloride	µg/m ³	0.256	<	<	<	<	<	6.32

Notes: SVP### soil vapour probe location
 19-SV## sample ID
 RDL reportable detection limit
 < result below reportable detection limit
 < # elevated RDL
 1 calculated based on an attenuation factor of 0.02 and MECP's 2011 Modified Generic Risk Assessment "Approved Model" (last updated November 1st, 2016) indoor air criteria for indoor use
Red, bold and underline indicates value exceeds the maximum acceptable vapour intrusion target levels (VITLs) calculated from the Residential, Lowest-Risk Level Health-Based Indoor Air Criteria from Modified Generic Risk Assessment "Approved Model", MECP, 2011 (last updated November 1, 2016)

Data Input: RV
 Data Check: ZL

**Table 5
Historical Soil Vapour Analytical Results**

Soil Vapour Probe		Parameter (µg/m ³)									
		Chloroform	Chloroethane	Dichloroethylene, 1,1-	Dichloroethylene, 1,2-cis-	Dichloroethylene, 1,2-trans-	Methylene Chloride	Tetrachloroethylene	Toluene	Trichloroethylene	Vinyl Chloride
Reference Criteria	Maximum Acceptable VITLs - Residential ¹	1040		730	1560	626	2420	214	52100	13.6	6.32
RDL		0.488	0.792	0.396	0.396	0.396	2.08	0.678	0.377	0.537	0.256
Sample ID	Date	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
SVP101											
18-SV005	May 2, 2018	2.96	<	<	<	<	<2.78	75.8	142	<	<
19-SV05	April 4, 2019	<	<	<	<	<	<	14.0	1.41	<	<
19-SV10	July 24, 2019	1.35	<	<	<	<	7.64	126	9.91	0.766	<
19-SV15	October 30, 2019	1.44	<	<	<	<	<	68.8	<	0.707	<
SVP102											
18-SV003	May 2, 2018	2.84	<	<	<	<	<2.78	72.6	138	<	<
18-SV004*	May 2, 2018	3.60	<	<	<	<	<2.78	76.4	234	0.636	<
19-SV03	April 4, 2019	<0.879	<1.42	<0.714	<0.714	<0.714	<3.75	211	<0.678	<0.967	<0.460
19-SV04*	April 4, 2019	<	<	<	<	<	<	202	0.572	<	<
19-SV08	July 24, 2019	<0.977	<0.158	<0.793	<0.793	<0.793	<4.17	3080	2.23	1.46	<0.511
19-SV09*	July 24, 2019	<0.977	<0.158	<0.793	<0.793	<0.793	<4.17	2820	2.55	<1.07	<0.511
19-SV13	October 30, 2019	<	<	<	<	<	<	783	2.14	<	<
19-SV14*	October 30, 2019	<	<	<	<	<	<	794	3.86	<	<
SVP103											
18-SV002	May 2, 2018	3.87	<	<	<	<	3.00	27.2	144	<	<
19-SV02	April 4, 2019	<	<	<	<	<	<	52.4	1.27	<	<
19-SV07	July 24, 2019	<	<	<	<	<	<	370	1.66	1.03	<
19-SV12	October 30, 2019	<	<	<	<	<	<	103	<	<	<
SVP104											
18-SV001	May 2, 2018	1.42	<	<	<	<	<2.78	2.45	33.7	<	<
19-SV01	April 4, 2019	<	<	<	<	<	<	30.8	1.05	<	<
19-SV06	July 24, 2019	<	<	<	<	<	<	2.44	1.06	1.56	<
19-SV11	October 30, 2019	<	<	<	<	<	<	<	0.613	<	<

Notes: SVP### soil vapour probe location
 19-SV## sample ID
 RDL reportable detection limit
 < result below reportable detection limit
 < # elevated RDL
 * duplicate sample

Data Input: RV
 Data Check: ZL

¹ calculated based on an attenuation factor of 0.02 and MECP's 2011 Modified Generic Risk Assessment "Approved Model" (last updated November 1st, 2016) indoor air criteria for indoor use
Red, bold and underline indicates value exceeds the maximum acceptable vapour intrusion target levels (VITLs) calculated from the Residential, Lowest-Risk Level Health-Based Indoor Air Criteria from Modified Generic Risk Assessment "Approved Model", MECP, 2011 (last updated November 1, 2016)



Your P.O. #: .
 Your Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your C.O.C. #: 36071

Attention: David Carnegie

Malroz Engineering Inc.
 308 Wellington St
 Kingston, ON
 Canada K7K 7A8

Report Date: 2019/11/12
 Report #: R5961243
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: B9U6279
Received: 2019/10/31, 11:34

Sample Matrix: Air
 # Samples Received: 5

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Canister Pressure (TO-15)	5	N/A	2019/11/06 BRL SOP-00304	EPA TO-15 m
Volatile Organics in Air (TO-15) (1)	5	N/A	2019/11/06 BRL SOP-00304	EPA TO-15 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
 (1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO15. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO15 on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Bureau Veritas Laboratories for a period of 5 calendar days or as contractually agreed from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
 Marinela Sim, Project Manager
 Email: Marinela.Sim@bvlabs.com
 Phone# (905)817-5828

=====
 This report has been generated and distributed using a secure automated process.
 BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

RESULTS OF ANALYSES OF AIR

BV Labs ID		LEK482	LEK483	LEK484	LEK485	LEK486	
Sampling Date		2019/10/30	2019/10/30	2019/10/30	2019/10/30	2019/10/30	
COC Number		36071	36071	36071	36071	36071	
	UNITS	19-SV11/346	19-SV12/1903	19-SV13/1350	19-SV14/1399	19-SV15/2510	QC Batch
Volatile Organics							
Pressure on Receipt	psig	(-2.2)	(-1.4)	(-2.5)	(-2.3)	(-2.5)	6428892
QC Batch = Quality Control Batch							



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK482			LEK483				
Sampling Date		2019/10/30			2019/10/30				
COC Number		36071			36071				
	UNITS	19-SV11/346	ug/m3	DL (ug/m3)	19-SV12/1903	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Vinyl Chloride	ppbv	<0.10	<0.256	0.256	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	<0.792	0.792	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	<2.08	2.08	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	<0.10	<0.488	0.488	<0.10	0.10	<0.488	0.488	6428874
Trichloroethylene	ppbv	<0.10	<0.537	0.537	<0.10	0.10	<0.537	0.537	6428874
Tetrachloroethylene	ppbv	<0.10	<0.678	0.678	15.1	0.10	103	0.678	6428874
Toluene	ppbv	0.16	0.613	0.377	<0.10	0.10	<0.377	0.377	6428874
Surrogate Recovery (%)									
Bromochloromethane	%	84	N/A	N/A	84		N/A	N/A	6428874
D5-Chlorobenzene	%	71	N/A	N/A	72		N/A	N/A	6428874
Difluorobenzene	%	80	N/A	N/A	80		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK484			LEK485				
Sampling Date		2019/10/30			2019/10/30				
COC Number		36071			36071				
	UNITS	19-SV13/1350	ug/m3	DL (ug/m3)	19-SV14/1399	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics									
Vinyl Chloride	ppbv	<0.10	<0.256	0.256	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	<0.792	0.792	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	<0.396	0.396	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	<2.08	2.08	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	<0.10	<0.488	0.488	<0.10	0.10	<0.488	0.488	6428874
Trichloroethylene	ppbv	<0.10	<0.537	0.537	<0.10	0.10	<0.537	0.537	6428874
Tetrachloroethylene	ppbv	116	783	1.36	117	0.20	794	1.36	6428874
Toluene	ppbv	0.57	2.14	0.377	1.02	0.10	3.86	0.377	6428874
Surrogate Recovery (%)									
Bromochloromethane	%	85	N/A	N/A	85		N/A	N/A	6428874
D5-Chlorobenzene	%	72	N/A	N/A	73		N/A	N/A	6428874
Difluorobenzene	%	79	N/A	N/A	80		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									



BV Labs Job #: B9U6279
 Report Date: 2019/11/12

Malroz Engineering Inc.
 Client Project #: 917-106.00
 Site Location: ROCHESTER ROW
 Your P.O. #: .
 Sampler Initials: RV

VOLATILE ORGANICS BY GC/MS (AIR)

BV Labs ID		LEK486				
Sampling Date		2019/10/30				
COC Number		36071				
	UNITS	19-SV15/2510	RDL	ug/m3	DL (ug/m3)	QC Batch
Volatile Organics						
Vinyl Chloride	ppbv	<0.10	0.10	<0.256	0.256	6428874
Chloroethane	ppbv	<0.30	0.30	<0.792	0.792	6428874
1,1-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
cis-1,2-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
trans-1,2-Dichloroethylene	ppbv	<0.10	0.10	<0.396	0.396	6428874
Methylene Chloride(Dichloromethane)	ppbv	<0.60	0.60	<2.08	2.08	6428874
Chloroform	ppbv	0.30	0.10	1.44	0.488	6428874
Trichloroethylene	ppbv	0.13	0.10	0.707	0.537	6428874
Tetrachloroethylene	ppbv	10.1	0.10	68.8	0.678	6428874
Toluene	ppbv	<0.10	0.10	<0.377	0.377	6428874
Surrogate Recovery (%)						
Bromochloromethane	%	82		N/A	N/A	6428874
D5-Chlorobenzene	%	71		N/A	N/A	6428874
Difluorobenzene	%	79		N/A	N/A	6428874
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



BV Labs Job #: B9U6279
Report Date: 2019/11/12

Malroz Engineering Inc.
Client Project #: 917-106.00
Site Location: ROCHESTER ROW
Your P.O. #: .
Sampler Initials: RV

GENERAL COMMENTS

Sample LEK484 [19-SV13/1350] : Tetrachloroethylene was analyzed at a 2X dilution. The DL was adjusted accordingly.

Sample LEK485 [19-SV14/1399] : Tetrachloroethylene was analyzed at a 2X dilution. The DL was adjusted accordingly.

Results relate only to the items tested.



QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
6428874	MNB	Spiked Blank	Bromochloromethane	2019/11/06		100	%	60 - 140
			D5-Chlorobenzene	2019/11/06		97	%	60 - 140
			Difluorobenzene	2019/11/06		100	%	60 - 140
			Vinyl Chloride	2019/11/06		100	%	70 - 130
			Chloroethane	2019/11/06		95	%	70 - 130
			1,1-Dichloroethylene	2019/11/06		97	%	70 - 130
			cis-1,2-Dichloroethylene	2019/11/06		96	%	70 - 130
			trans-1,2-Dichloroethylene	2019/11/06		101	%	70 - 130
			Methylene Chloride(Dichloromethane)	2019/11/06		95	%	70 - 130
			Chloroform	2019/11/06		102	%	70 - 130
			Trichloroethylene	2019/11/06		109	%	70 - 130
			Tetrachloroethylene	2019/11/06		108	%	70 - 130
			Toluene	2019/11/06		105	%	70 - 130
			6428874	MNB	Method Blank	Bromochloromethane	2019/11/06	
D5-Chlorobenzene	2019/11/06					75	%	60 - 140
Difluorobenzene	2019/11/06					85	%	60 - 140
Vinyl Chloride	2019/11/06	<0.10					ppbv	
Chloroethane	2019/11/06	<0.30					ppbv	
1,1-Dichloroethylene	2019/11/06	<0.10					ppbv	
cis-1,2-Dichloroethylene	2019/11/06	<0.10					ppbv	
trans-1,2-Dichloroethylene	2019/11/06	<0.10					ppbv	
Methylene Chloride(Dichloromethane)	2019/11/06	<0.60					ppbv	
Chloroform	2019/11/06	<0.10					ppbv	
Trichloroethylene	2019/11/06	<0.10					ppbv	
Tetrachloroethylene	2019/11/06	<0.10					ppbv	
Toluene	2019/11/06	<0.10					ppbv	
6428874	MNB	RPD [LEK483-01]				Vinyl Chloride	2019/11/06	NC
			Chloroethane	2019/11/06	NC		%	25
			1,1-Dichloroethylene	2019/11/06	NC		%	25
			cis-1,2-Dichloroethylene	2019/11/06	NC		%	25
			trans-1,2-Dichloroethylene	2019/11/06	NC		%	25
			Methylene Chloride(Dichloromethane)	2019/11/06	NC		%	25
			Chloroform	2019/11/06	NC		%	25
			Trichloroethylene	2019/11/06	NC		%	25
			Tetrachloroethylene	2019/11/06	3.9		%	25
			Toluene	2019/11/06	NC		%	25

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BV Labs Job #: B9U6279
Report Date: 2019/11/12

Malroz Engineering Inc.
Client Project #: 917-106.00
Site Location: ROCHESTER ROW
Your P.O. #: .
Sampler Initials: RV

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Maureen Smith, Supervisor, Volatiles

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Chain of Custody Form - Summa™ Canister

36071



6740 Campobello Rd
Mississauga Ontario, L5N 2L8
WWW.MAXXAM.CA

Toll Free: 1-800-665-0539
Phone: (905) 817-5700
Fax: (905) 817-5777

CAM FCD-01302 / 2

Page 1 of 1

INVOICE INFORMATION

Company Name: City of Ottawa

Contact Name: Miss Ziebell

Address: 800 Greens Creek Dr
Ottawa ON

E-mail: michael.ziebell@ottawa.ca

Ph: _____

Sampled by: Bob Varcoe

REPORT INFORMATION

Company Name: Maxxam Engineering

Project Manager: Dani Cornejo

Address: 389 Wellington St
Kingston ON
varcoe@maxxam.com
cornejo@maxxam.com

E-mail: _____

Ph: 617 548 3446

ANALYSIS REQUESTED

START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	Aromatic/Aliphatic Hydrocarbon Fractions	F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	Di-chloroethane, is- <u>1,2</u>	Di-chloroethane, trans- <u>1,2</u>	Di-bromoethane, is- <u>1,2</u>	Methylene Chloride	Chloroform, Trichloroethylene	Tetrachloroethylene, Ethylene	CANISTERS NOT USED
-----------------------------	---------------------------	-------------	--------------------	-------------------------------	--------------	-------------------------------------	--	------------------------------	---------------------------------	-------	---------------------------------	------------------------------------	--------------------------------	--------------------	-------------------------------	-------------------------------	--------------------

Field Sample ID	Canister Serial #	Flow Regulator Serial #	Collection Date	START VACUUM (inches of Hg)	END VACUUM (inches of Hg)	SOIL VAPOUR	AMBIENT/INDOOR AIR	AMBIENT/COMMERCIAL/INDUSTRIAL	SUB-SLAB GAS	FULL LIST OF VOCs (reference TO15A)	Aromatic/Aliphatic Hydrocarbon Fractions	F1 (C6-C10) and F2 (C10-C16)	Selected VOC's - please specify	Other	Di-chloroethane, is- <u>1,2</u>	Di-chloroethane, trans- <u>1,2</u>	Di-bromoethane, is- <u>1,2</u>	Methylene Chloride	Chloroform, Trichloroethylene	Tetrachloroethylene, Ethylene	CANISTERS NOT USED	
19-SV11	346	F0704	19-10-30	27.0	3.5	X								X	X	X	X	X	X	X	X	
19-SV12	1903	F0817	↓	26.8	2.9	X								X	X	X	X	X	X	X	X	
19-SV13	1350	F0931	↓	26.5	4.2	X								X	X	X	X	X	X	X	X	
19-SV14	1399	F0662	↓	26.0	3.9	X								X	X	X	X	X	X	X	X	
19-SV15	2510	F0874	↓	27.1	4.1	X								X	X	X	X	X	X	X	X	

31-Oct-19 11:34
Sara Singh
B9U6279

TAT Requirement

STD 10 Business day

Rush 5 Business day *

Rush 2 Business day *

Rush Other *

* need approval from Maxxam

PROJECT INFORMATION

Project #: 917

Name: Bechester Row

PO #: _____

Maxxam Quote #: _____

Maxxam Contact: _____

Task Order/Line Item: _____

REPORTING REQUIREMENTS

EDD

Regulations ON 153

ON 419

BC CSR

Other EPA TRIS

Notes

1) please indicate on soil vapour or ambient, KK4 AIR-001

2) please list all canisters on the chain of custody even if unused

Client Signature: [Signature]

Date/Time: 19/10/30

Received by: [Signature]

Date/Time: 2019/10/30 13:30

PROJECT-SPECIFIC COMMENTS

Analyses same as previous job (B9K5128)

RECEIVED IN OTTAWA

PLEASE RETURN ALL UNUSED EQUIPMENT

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Maxxam's Standard Terms and Conditions. Signing of this Chain of Custody document is acknowledgment and acceptance of our terms which are available for viewing at www.maxxam.ca/terms

GOC-1005 (11/2017)

Khushboo Kapoor 2019/10/31 11:34

APPENDIX 6

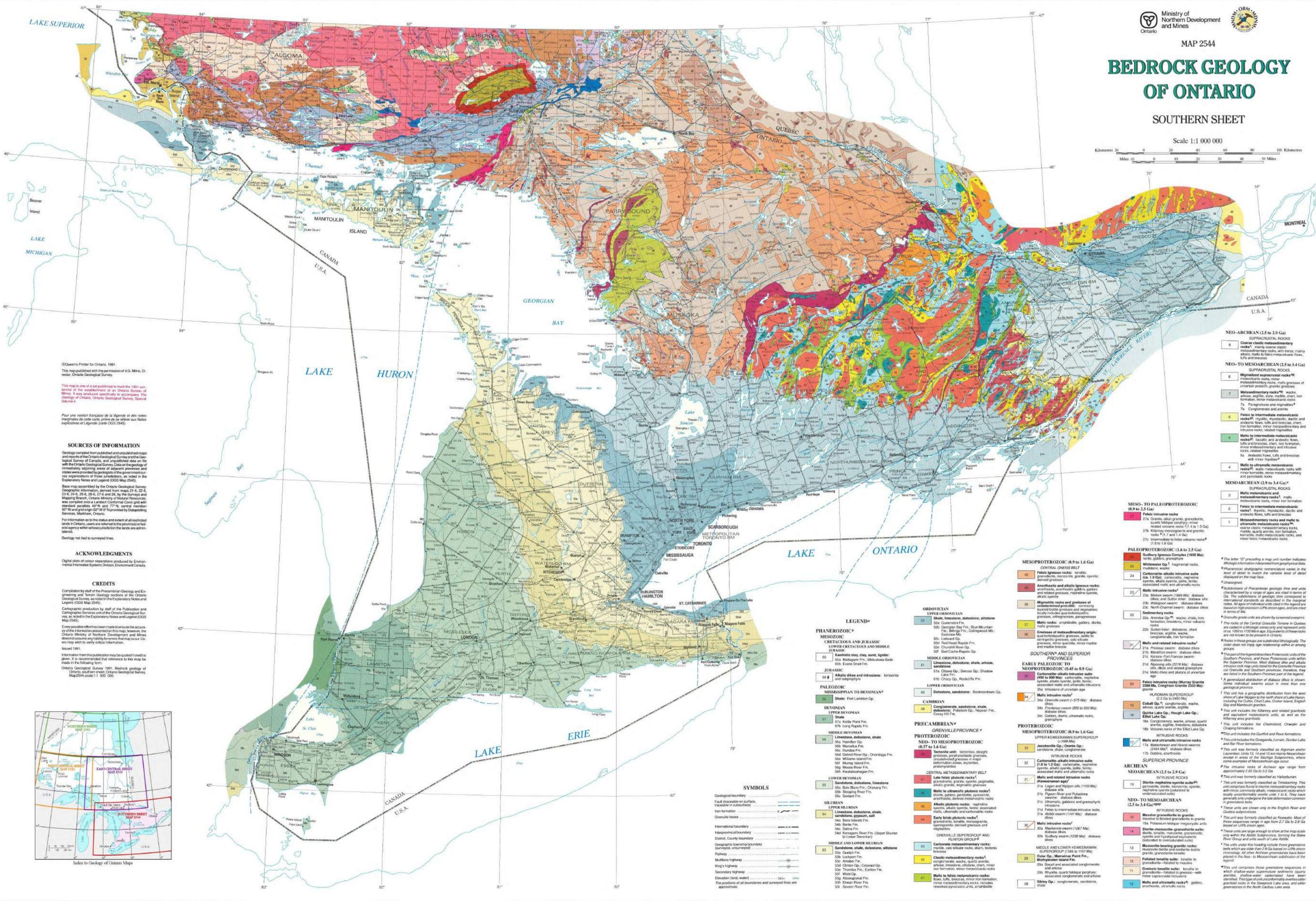
GEOLOGICAL / TOPOGRAPHICS MAPS



BEDROCK GEOLOGY OF ONTARIO

SOUTHERN SHEET

Scale 1:1 000 000



© Queen's Printer for Ontario, 1991. This map was prepared with the permission of V.G. Mills, Director, Ontario Geological Survey.

This map is one of a set published to mark the 100th anniversary of the establishment of the Ontario Bureau of Mines. It was produced specifically to accompany The Geology of Ontario, Ontario Geological Survey, Special Volume 4.

Pour une version française de la légende et des notes marginales de cette carte, prière de se référer aux Notes explicatives de Légende (carte GGS 2545).

SOURCES OF INFORMATION

Geology compiled from published and unpublished maps and reports of the Ontario Geological Survey and the Geological Survey of Canada, and unpublished data on file with the Ontario Geological Survey. Data on the geology of immediately adjoining areas of adjacent provinces and states were provided by geologists of the government survey organizations of those jurisdictions, as noted in the Explanatory Notes and Legend (OGS Map 2545).

Data were assembled by the Ontario Geological Survey. Geographic information, derived from maps 21-6, 22-4, 23-8, 24-4, 25-6, 26-4, 27-4 and 28, by the Surveys and Mapping Branch, Ontario Ministry of Natural Resources, was compiled onto a Lambert Conformal Conic grid with standard parallels 42°N and 77°N, central meridian 82°W and grid origin 52°W as approved by Outgoing Services,渥太華, Ontario.

For information as to the status and extent of all restricted areas in Ontario, users are referred to the provincial or federal agency with whose jurisdiction the lands are administered.

Geology not tied to surveyed lines.

ACKNOWLEDGMENTS

Digital plots of colour separations produced by Environment Information Systems Division, Environment Canada.

CREDITS

Compilation by staff of the Precambrian Geology and Engineering and Terrain Geology sections of the Ontario Geological Survey, as reported in Explanatory Notes and Legend (OGS Map 2545).

Cartographic production by staff of the Publication and Cartographic Services unit of the Ontario Geological Survey, as noted in the Explanatory Notes and Legend (OGS Map 2545).

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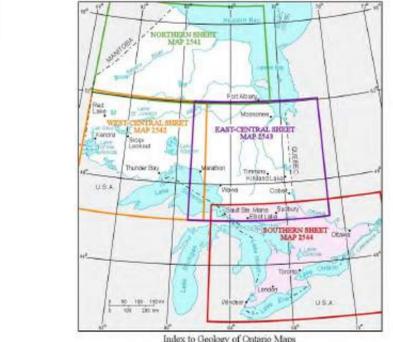
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LEGEND*

PHANEROZOIC*

MESOZOIC

CRETACEOUS AND MIDDLE JURASSIC

JURASSIC

PALEOZOIC

MISSISSIPPIAN TO DEVONIAN*

DEVONIAN

UPPER DEVONIAN

MIDDLE DEVONIAN

LOWER DEVONIAN

SILURIAN

UPPER SILURIAN

MIDDLE AND LOWER SILURIAN

PRECAMBRIAN*

GREENVILLE PROVINCE*

PROTEROZOIC

NEO- TO MESOPROTEROZOIC

MESO- TO PALEOPROTEROZOIC

PALEOPROTEROZOIC

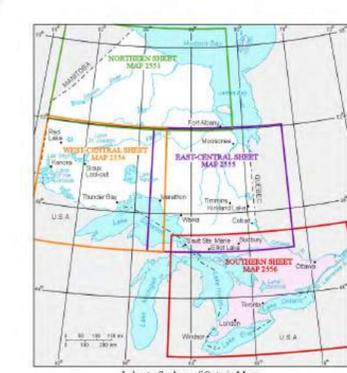
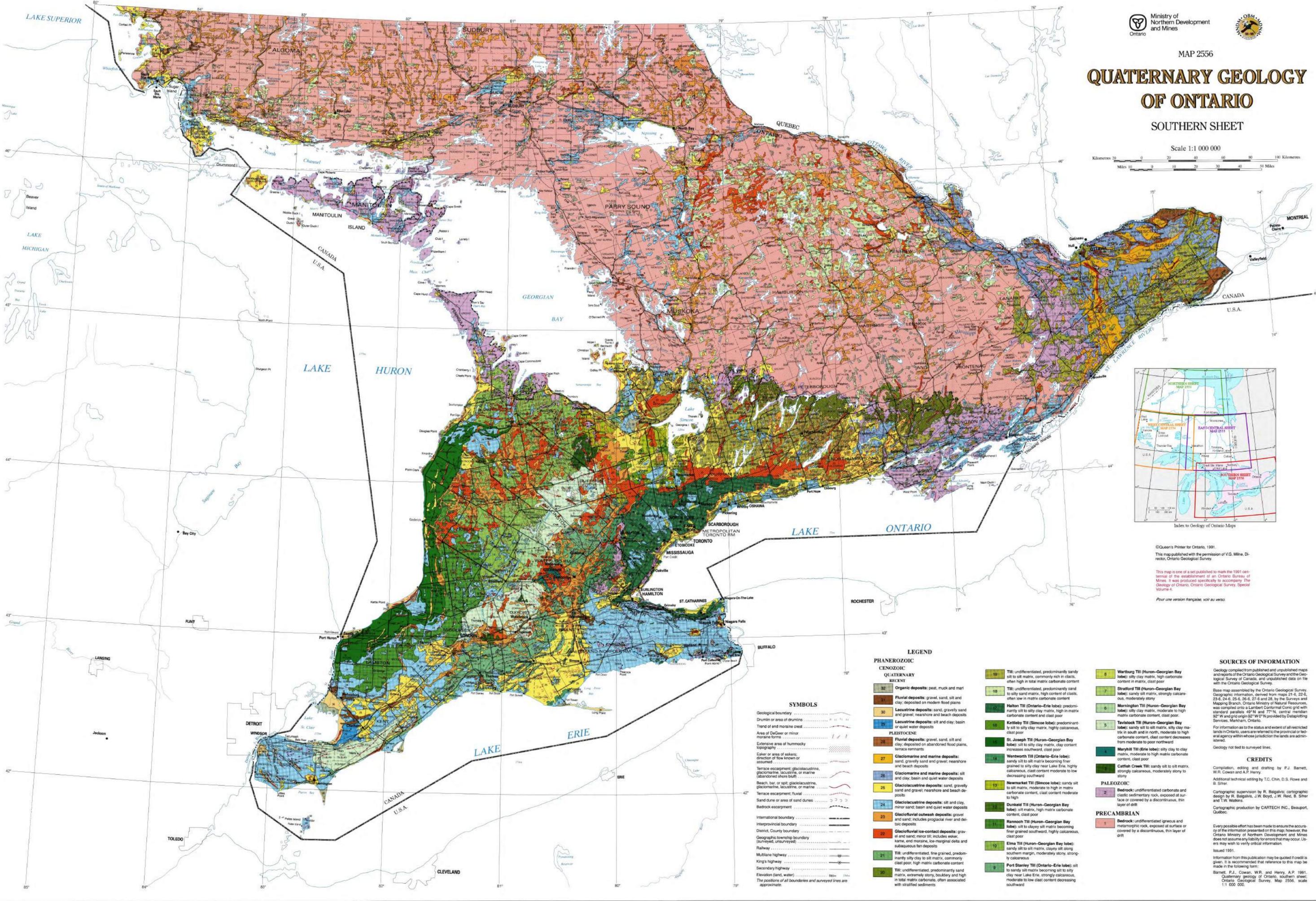
PROTEROZOIC

MESO- TO PALEOPROTEROZOIC

QUATERNARY GEOLOGY OF ONTARIO

SOUTHERN SHEET

Scale 1:1 000 000



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This map published with the permission of V.G. Milne, Director, Ontario Geological Survey.

This map is one of a set published to mark the 150th anniversary of the establishment of an Ontario Bureau of Mines. It was produced specifically to accompany The Geology of Ontario, Ontario Geological Survey, Special Volume 4.

Pour une version française, voir au verso.

LEGEND

PHANEROZOIC	
CENOZOIC	
QUATERNARY	
32	Organic deposits: peat, muck and marl
31	Fluvial deposits: gravel, sand, silt and clay; deposited on modern flood plains
30	Lacustrine deposits: silt, clay, gravelly sand and gravel; nearshore and beach deposits
29	Lacustrine deposits: silt and clay; basin or quiet water deposits
PLEISTOCENE	
28	Glaciomarine and marine deposits: sand, gravelly sand and gravel; nearshore and beach deposits
27	Glaciomarine and marine deposits: silt and clay; basin and quiet water deposits
26	Glaciomarine and marine deposits: silt and clay; basin and quiet water deposits
25	Muskeget Till (Simcoe lobe): sand, gravelly sand and gravel; nearshore and beach deposits
24	Glaciolacustrine deposits: silt and clay, minor sand; basin and quiet water deposits
23	Glaciolacustrine deposits: silt and clay; minor sand; basin and quiet water deposits
22	Glaciolacustrine deposits: silt and clay; minor sand; basin and quiet water deposits
21	Till: undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content
20	Till: undifferentiated, predominantly sandy silt to silt matrix, commonly rich in clasts, often high in total matrix carbonate content

SYMBOLS

Geological boundary	—
Drumlin or area of drumlins	—
Trend of and moraine crest	—
Area of DeGeer or minor moraine forms	—
Extensive area of hummocky topography	—
Esker or area of eskers; direction of flow known or assumed	—
Terrace escarpment; glaciolacustrine, glaciomarine, lacustrine, or marine (abandoned shore bluff)	—
Beach bar, or spit; glaciolacustrine, glaciomarine, lacustrine, or marine	—
Terrace escarpment; fluvial	—
Sand dune or area of sand dunes	—
Bedrock escarpment	—
International boundary	—
Interprovincial boundary	—
District, County boundary	—
Geographic township boundary (surveyed, unsurveyed)	—
Railway	—
Multilane highway	—
King's highway	—
Secondary highway	—
Elevation (land, water)	—

The position of all boundaries and surveyed lines are approximate.

SOURCES OF INFORMATION

Geology compiled from published and unpublished maps and reports of the Ontario Geological Survey and the Geological Survey of Canada, and unpublished data on file with the Ontario Geological Survey.

Base map assembled by the Ontario Geological Survey. Geographic information, derived from maps 21-6, 22-6, 23-6, 24-6, 25-6, 26-6, 27-6 and 28, by the Survey and Mapping Branch, Ontario Ministry of Natural Resources, was compiled onto a Lambert Conformal Conic grid with standard parallels 46°N and 77°N, central meridian 82°W and grid origin 82°W 0°N provided by Datagraphics Services, Markham, Ontario.

For information as to the status and extent of all restricted lands in Ontario, users are referred to the provincial or federal agency within whose jurisdiction the lands are administered.

Geology not tied to surveyed lines.

CREDITS

Compilation, editing and drafting by P.J. Barnett, W.R. Cowan and A.P. Henry.
Additional technical editing by T.C. Chin, D.S. Rowe and B. Silver.

Cartographic supervision by R. Balgavits; cartographic design by R. Balgavits, J.W. Boyd, J.W. Reid, B. Silver and T.W. Watkins.

Cartographic production by CARTECH INC., Beaufort, Ontario.

Every possible effort has been made to ensure the accuracy of the information presented on this map; however, the Ontario Ministry of Northern Development and Mines does not assume any liability for errors that may occur. Users may wish to verify critical information.

Issued 1991.

Information from this publication may be quoted if credit is given. It is recommended that reference to the following form:

Barnett, P.J., Cowan, W.R. and Henry, A.P. 1991. Quaternary geology of Ontario, southern sheet: Ontario Geological Survey, Map 2556, scale 1:1 000 000.

APPENDIX 7 ERIS REPORTS / CITY DIRECTORY





DATABASE REPORT

Project Property: R63048
R63048
Ottawa ON K1R 7M9

Project No:

Report Type: Quote - Custom-Build Your Own Report

Order No: 22010600157

Requested by: Rubicon Environmental (2008) Inc.

Date Completed: January 19, 2022

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	6
Executive Summary: Site Report Summary - Surrounding Properties.....	7
Executive Summary: Summary By Data Source.....	25
Map.....	47
Aerial.....	48
Topographic Map.....	49
Detail Report.....	50
Unplottable Summary.....	178
Unplottable Report.....	180
Appendix: Database Descriptions.....	189
Definitions.....	198

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Executive Summary

Property Information:

Project Property: R63048
R63048 Ottawa ON K1R 7M9

Project No:

Order Information:

Order No: 22010600157
Date Requested: January 6, 2022
Requested by: Rubicon Environmental (2008) Inc.
Report Type: Quote - Custom-Build Your Own Report

Historical/Products:

Aerial Photographs Aerials - National Collection
City Directory Search CD - Subject Site plus 5 Adjacent Properties
Insurance Products Fire Insurance Maps/Inspection Reports/Site Plans

Executive Summary: Report Summary

<i>Database</i>	<i>Name</i>	<i>Searched</i>	<i>Project Property</i>	<i>Boundary to 0.25km</i>	<i>Total</i>
AAGR	<i>Abandoned Aggregate Inventory</i>	Y	0	0	0
AGR	<i>Aggregate Inventory</i>	Y	0	0	0
AMIS	<i>Abandoned Mine Information System</i>	Y	0	0	0
ANDR	<i>Anderson's Waste Disposal Sites</i>	Y	0	0	0
AST	<i>Aboveground Storage Tanks</i>	Y	0	0	0
AUWR	<i>Automobile Wrecking & Supplies</i>	Y	0	3	3
BORE	<i>Borehole</i>	Y	0	4	4
CA	<i>Certificates of Approval</i>	Y	0	13	13
CDRY	<i>Dry Cleaning Facilities</i>	Y	0	0	0
CFOT	<i>Commercial Fuel Oil Tanks</i>	Y	0	0	0
CHEM	<i>Chemical Manufacturers and Distributors</i>	Y	0	0	0
CHM	<i>Chemical Register</i>	Y	0	0	0
CNG	<i>Compressed Natural Gas Stations</i>	Y	0	0	0
COAL	<i>Inventory of Coal Gasification Plants and Coal Tar Sites</i>	Y	0	0	0
CONV	<i>Compliance and Convictions</i>	Y	0	0	0
CPU	<i>Certificates of Property Use</i>	Y	0	0	0
DRL	<i>Drill Hole Database</i>	Y	0	0	0
DTNK	<i>Delisted Fuel Tanks</i>	Y	0	6	6
EASR	<i>Environmental Activity and Sector Registry</i>	Y	0	4	4
EBR	<i>Environmental Registry</i>	Y	0	2	2
ECA	<i>Environmental Compliance Approval</i>	Y	0	27	27
EEM	<i>Environmental Effects Monitoring</i>	Y	0	0	0
EHS	<i>ERIS Historical Searches</i>	Y	0	52	52
EIIS	<i>Environmental Issues Inventory System</i>	Y	0	0	0
EMHE	<i>Emergency Management Historical Event</i>	Y	0	0	0
EPAR	<i>Environmental Penalty Annual Report</i>	Y	0	0	0
EXP	<i>List of Expired Fuels Safety Facilities</i>	Y	0	0	0
FCON	<i>Federal Convictions</i>	Y	0	0	0
FCS	<i>Contaminated Sites on Federal Land</i>	Y	0	0	0
FOFT	<i>Fisheries & Oceans Fuel Tanks</i>	Y	0	0	0
FRST	<i>Federal Identification Registry for Storage Tank Systems (FIRSTS)</i>	Y	0	0	0
FST	<i>Fuel Storage Tank</i>	Y	0	3	3
FSTH	<i>Fuel Storage Tank - Historic</i>	Y	0	0	0
GEN	<i>Ontario Regulation 347 Waste Generators Summary</i>	Y	0	48	48
GHG	<i>Greenhouse Gas Emissions from Large Facilities</i>	Y	0	0	0
HINC	<i>TSSA Historic Incidents</i>	Y	0	0	0

Database	Name	Searched	Project Property	Boundary to 0.25km	Total
IAFT	<i>Indian & Northern Affairs Fuel Tanks</i>	Y	0	0	0
INC	<i>Fuel Oil Spills and Leaks</i>	Y	0	1	1
LIMO	<i>Landfill Inventory Management Ontario</i>	Y	0	0	0
MINE	<i>Canadian Mine Locations</i>	Y	0	0	0
MNR	<i>Mineral Occurrences</i>	Y	0	0	0
NATE	<i>National Analysis of Trends in Emergencies System (NATES)</i>	Y	0	0	0
NCPL	<i>Non-Compliance Reports</i>	Y	0	0	0
NDFT	<i>National Defense & Canadian Forces Fuel Tanks</i>	Y	0	0	0
NDSP	<i>National Defense & Canadian Forces Spills</i>	Y	0	0	0
NDWD	<i>National Defence & Canadian Forces Waste Disposal Sites</i>	Y	0	0	0
NEBI	<i>National Energy Board Pipeline Incidents</i>	Y	0	0	0
NEBP	<i>National Energy Board Wells</i>	Y	0	0	0
NEES	<i>National Environmental Emergencies System (NEES)</i>	Y	0	0	0
NPCB	<i>National PCB Inventory</i>	Y	0	0	0
NPRI	<i>National Pollutant Release Inventory</i>	Y	0	0	0
OGWE	<i>Oil and Gas Wells</i>	Y	0	0	0
OOGW	<i>Ontario Oil and Gas Wells</i>	Y	0	0	0
OPCB	<i>Inventory of PCB Storage Sites</i>	Y	0	0	0
ORD	<i>Orders</i>	Y	0	0	0
PAP	<i>Canadian Pulp and Paper</i>	Y	0	0	0
PCFT	<i>Parks Canada Fuel Storage Tanks</i>	Y	0	0	0
PES	<i>Pesticide Register</i>	Y	0	9	9
PINC	<i>Pipeline Incidents</i>	Y	0	1	1
PRT	<i>Private and Retail Fuel Storage Tanks</i>	Y	0	2	2
PTTW	<i>Permit to Take Water</i>	Y	0	1	1
REC	<i>Ontario Regulation 347 Waste Receivers Summary</i>	Y	0	0	0
RSC	<i>Record of Site Condition</i>	Y	0	2	2
RST	<i>Retail Fuel Storage Tanks</i>	Y	0	1	1
SCT	<i>Scott's Manufacturing Directory</i>	Y	0	5	5
SPL	<i>Ontario Spills</i>	Y	0	10	10
SRDS	<i>Wastewater Discharger Registration Database</i>	Y	0	0	0
TANK	<i>Anderson's Storage Tanks</i>	Y	0	0	0
TCFT	<i>Transport Canada Fuel Storage Tanks</i>	Y	0	0	0
VAR	<i>Variances for Abandonment of Underground Storage Tanks</i>	Y	0	0	0
WDS	<i>Waste Disposal Sites - MOE CA Inventory</i>	Y	0	0	0
WDSH	<i>Waste Disposal Sites - MOE 1991 Historical Approval Inventory</i>	Y	0	0	0
WWIS	<i>Water Well Information System</i>	Y	2	22	24
Total:			2	216	218

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev diff (m)</i>	<i>Page Number</i>
1	WWIS		249 ROCHESTER Ottawa ON <i>Well ID:</i> 7204253	WNW/0.0	-0.73	50
1	WWIS		249 ROCHESTER ST Ottawa ON <i>Well ID:</i> 7204254	WNW/0.0	-0.73	53

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
2	EHS		247 Rochester St Ottawa ON K1R7M9	NW/4.4	-0.12	55
3	WWIS		280 Rochester St. Ottawa ON Well ID: 7353770	SW/9.6	-0.64	56
4	EHS		90 Willow Street Ottawa ON K1R 6W1	NNE/13.0	0.33	58
5	EHS		13 Balsam Street Ottawa ON K1R 6W6	ENE/23.5	0.27	58
5	EHS		13 Balsam Street Ottawa ON K1R 6W6	ENE/23.5	0.27	59
5	EHS		13 Balsam Street Ottawa ON K1R 6W6	ENE/23.5	0.27	59
5	EHS		13 Balsam Street Ottawa ON K1R 6W6	ENE/23.5	0.27	59
6	WWIS		ON Well ID: 7204974	ENE/23.6	0.88	59
7	EHS		250 Rochester Street, Ottawa ON K1R 7N1	W/27.2	-1.00	60
7	EHS		250 Rochester Street, Ottawa ON K1R 7N1	W/27.2	-1.00	60
7	EHS		250 Rochester Street, Ottawa ON K1R 7N1	W/27.2	-1.00	61
7	EHS		250 Rochester Street, Ottawa ON K1R 7N1	W/27.2	-1.00	61

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
<u>8</u>	GEN	2363251 Ontario Inc.	250 Rochester Street Ottawa ON K1R 7N1	W/27.3	-1.00	<u>61</u>
<u>9</u>	GEN	City of Ottawa	ROW Adjacent to 234-254 Rochester Street OTTawa ON K1R 7N1	WSW/31.3	-1.82	<u>61</u>
<u>10</u>	EHS		13 Balsam Street Ottawa ON	E/32.9	0.27	<u>61</u>
<u>11</u>	WWIS		13 BALSAM STREET OTTAWA ON Well ID: 7197903	ENE/37.6	1.36	<u>62</u>
<u>12</u>	EHS		811 Gladstone Ave Ottawa ON K1R6Y1	ESE/42.1	-0.38	<u>65</u>
<u>13</u>	CA	Princiotta Tower Incorporated	386-394 Booth Street and 9 Balsam St Ottawa ON	ENE/46.5	1.36	<u>65</u>
<u>13</u>	GEN	Princiotta Towers Inc.	388 Booth St. Ottawa ON	ENE/46.5	1.36	<u>65</u>
<u>13</u>	ECA	Princiotta Tower Incorporated	386-394 Booth Street and 9 Balsam St Ottawa ON K4P 1M5	ENE/46.5	1.36	<u>66</u>
<u>14</u>	SPL	Enbridge Gas Distribution Inc.	228 Rochester St. Ottawa ON	WNW/59.3	-0.85	<u>66</u>
<u>14</u>	PINC	IN-DEPTH CONSTRUCTION	228 ROCHESTER ST.,,OTTAWA,ON,K1R 7M8,CA ON	WNW/59.3	-0.85	<u>66</u>
<u>15</u>	ECA	Princiotta Tower Incorporated	Lot 256 and Part of Lot 257, Registered Plan 16 Ottawa ON K4P 1M5	ENE/60.7	1.36	<u>67</u>
<u>16</u>	WWIS		ON Well ID: 7297428	ESE/60.8	0.22	<u>67</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
17	ECA	Ottawa Community Housing Corporation	811 Gladstone Ave Ottawa ON K2E 7Y8	SSE/60.9	-0.69	68
17	EASR	GORDON BARR LIMITED	811 Gladstone AVE Ottawa ON K2P 0R4	SSE/60.9	-0.69	68
18	WWIS		26 BALSAM Ottawa ON <i>Well ID: 7204405</i>	WNW/80.6	-1.69	69
19	CA	OTTAWA CITY	ROCHESTER ST./GLADSTONE AVE. OTTAWA CITY ON	SSE/82.7	-1.00	72
19	CA	R.M. OF OTTAWA-CARLETON	ROCHESTER ST/GLADSTONE AVE/ELM OTTAWA CITY ON	SSE/82.7	-1.00	72
20	SPL	City of Ottawa	Intersection Gladstone St & Rochester St Ottawa ON	SSE/82.7	-1.00	72
20	EHS		Gladstone Ave Rochester St Ottawa ON	SSE/82.7	-1.00	73
21	ECA	360 Booth Street Inc.	360 Booth Street Ottawa ON K2P 1K6	NNE/83.0	1.61	73
22	EHS		811 Gladstone Ave Ottawa ON K1R 6Y1	ESE/95.1	0.31	73
23	BORE		ON	S/97.2	-1.82	74
24	GEN	MCCONOMY RACING ENTERPRISES LTD.	23-4 POPLAR STREET OTTAWA ON K1R 6V1	N/114.9	2.25	75
25	EHS		470 Booth Street Ottawa ON K1R 7N3	ESE/118.3	0.31	75
26	ECA	City of Ottawa	Preston Street (Albert Street to Carling Avenue) Ottawa ON K1P 1J1	SW/121.7	-2.27	75

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
26	ECA	City of Ottawa	Preston Street Ottawa ON K1P 1J1	SW/121.7	-2.27	75
26	ECA	City of Ottawa	Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	SW/121.7	-2.27	76
26	ECA	City of Ottawa	Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	SW/121.7	-2.27	76
26	ECA	City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	SW/121.7	-2.27	76
26	ECA	City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	SW/121.7	-2.27	77
26	ECA	City of Ottawa	Oak Street & Pamilla Street Ottawa ON K2G 6J8	SW/121.7	-2.27	77
26	ECA	City of Ottawa	Larch Street and Laurel Street Ottawa ON K2P 1J1	SW/121.7	-2.27	77
26	ECA	City of Ottawa	Somerset Street between West of Preston Street to Preston Ottawa ON K1P 1J1	SW/121.7	-2.27	78
26	ECA	City of Ottawa	Booth (from Somerset Street to Primrose) Ottawa ON K2G 6J8	SW/121.7	-2.27	78
26	ECA	City of Ottawa	Preston Street , Young Street, Sidney Street & Norfolk Avenue Ottawa ON K1P 1J1	SW/121.7	-2.27	78
26	ECA	City of Ottawa	Adeline Street - CP Railway to Rochester Street Ottawa ON K1V 6A6	SW/121.7	-2.27	78
26	ECA	City of Ottawa	Booth (from Somerset Street to Primrose) Ottawa ON K2G 6J8	SW/121.7	-2.27	79
26	ECA	City of Ottawa	Adeline Street - CP Railway to Rochester Street	SW/121.7	-2.27	79

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			Ottawa ON K1V 6A6			
27	SCT	The Original Maple Bat Company	202 Rochester St Ottawa ON K1R 7M6	NW/131.1	-0.61	79
28	SCT	The Original Maple Bat Company	202 Ronchester St Ottawa ON K1R 7M6	NW/131.2	-0.61	80
29	WWIS		357 BOOTH ST. Ottawa ON <i>Well ID: 7169258</i>	NNE/133.4	3.05	80
30	GEN	OTTAWA BOARD OF EDUCATION	HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	SSW/136.2	-1.57	83
30	GEN	OTTAWA BOARD OF EDUCATION	HIGH SCHOOL OF COMMERCE 300 ROCHESTER STREET OTTAWA ON K1R 7N4	SSW/136.2	-1.57	83
30	GEN	OTTAWA BOARD OF EDUCATION 29-129	HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	SSW/136.2	-1.57	83
30	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	84
30	GEN	Ottawa-Carleton District School Board	Adult Continuing Education Centre 300 Rochester St. Ottawa ON K1R 7N4	SSW/136.2	-1.57	84
30	EHS		300 Rochester Street Ottawa ON K1R 7N4	SSW/136.2	-1.57	84
30	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	SSW/136.2	-1.57	85
30	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	SSW/136.2	-1.57	85
30	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET	SSW/136.2	-1.57	86

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
			OTTAWA ON K1R 7N4			
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	SSW/136.2	-1.57	<u>86</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON	SSW/136.2	-1.57	<u>87</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>87</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>88</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>89</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>90</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>90</u>
<u>30</u>	GEN	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	SSW/136.2	-1.57	<u>91</u>
<u>31</u>	GEN	HARVEY SIGNS LIMITED	351 BOOTH STREET OTTAWA ON K1R 7K1	NNE/139.5	3.24	<u>92</u>
<u>31</u>	GEN	HARVEY SIGNS LIMITED	351 BOOTH STREET OTTAWA ON K1R 7K1	NNE/139.5	3.24	<u>92</u>
<u>31</u>	GEN	HARVEY SIGNS LIMITED 19-298	351 BOOTH STREET OTTAWA ON K1R 7K1	NNE/139.5	3.24	<u>93</u>

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
31	AUWR	CHADO'S PERFORMANCE & PAR	355 BOOTH ST OTTAWA ON K1R 7K1	NNE/139.5	3.24	93
31	EHS		345 TO 357 BOOTH ST OTTAWA ON	NNE/139.5	3.24	93
32	WWIS		ON <i>Well ID:</i> 7199618	NNE/143.8	3.24	93
33	GEN	Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	WSW/148.1	-2.74	94
33	GEN	Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	WSW/148.1	-2.74	95
33	GEN	Central Tenant Services	865 Gladstone Ottawa ON K1R 7T4	WSW/148.1	-2.74	95
33	GEN	Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	WSW/148.1	-2.74	95
33	GEN	Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	WSW/148.1	-2.74	95
34	SPL	Enbridge Gas Distribution Inc.	43 Willow Street Ottawa ON	NE/148.7	3.27	96
35	RSC	345 Booth Street Ltd	345 - 357 BOOTH STREET, OTTAWA, ONTARIO K1R 7K1 Ottawa ON	NNE/149.3	3.24	96
35	ECA	345 Booth St Ltd	345 - 357 Booth St Ottawa ON K2P 1A1	NNE/149.3	3.24	97
36	EBR	Chado's Autobody Inc.	347 Booth Street Ottawa Ontario K1R 7K1 Ottawa ON	NNE/149.3	3.24	98
36	CA	Chado's Autobody Inc.	347 Booth Street Ottawa ON K1R 7K1	NNE/149.3	3.24	98

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
36	GEN	297 Bank St Ltd	347 Booth Street Ottawa ON	NNE/149.3	3.24	98
36	ECA	Chado's Autobody Inc.	347 Booth Street Ottawa ON K1R 7K1	NNE/149.3	3.24	99
37	GEN	LA PAUSE VELO LTEE/BIKE STOP, THE	225 PRESTON STREET, REAR UNIT OTTAWA ON K1R 7R1	WSW/153.1	-3.39	99
37	GEN	LA PAUSE VELO LIMITEE	225 PRESTON STREET OTTAWA ON K1R 7R1	WSW/153.1	-3.39	99
37	EHS		225 Preston St. Ottawa ON K1R 7R1	WSW/153.1	-3.39	99
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	100
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	100
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	100
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	101
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	101
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON	WSW/153.1	-3.39	101
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	101
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	102

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	102
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	102
37	GEN	Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	103
37	GEN	Appletree Corporate Medical Centre 204	225 Preston Street Ottawa ON K1R 7R1	WSW/153.1	-3.39	103
38	WWIS		818 Gladstone Ave Ottawa ON Well ID: 7355925	SE/160.8	-0.71	103
39	GEN	Ottawa Community Housing	818 Gladstone Ave Ottawa ON K2R 7Y8	SE/161.9	-0.71	106
39	GEN	Ottawa Community Housing	818 Gladstone Ave Ottawa ON K2R 7Y8	SE/161.9	-0.71	106
40	EASR	LAURENT LEBLANC LIMITED	151 Willow ST Ottawa ON K1R 6W2	W/162.4	-3.00	106
41	WWIS		347 ROCHESTER ST Ottawa ON Well ID: 7204404	SSE/170.5	-1.00	106
42	PRT	PRESTON AUTO CENTRE INC	241 PRESTON ST OTTAWA ON K1R 7R3	WSW/170.8	-3.69	110
42	SPL	City of Ottawa	South East corner of Preston and Balsam 241 PRESTON STREET, OTTAWA<UNOFFICIAL> Ottawa ON K1R 7R3	WSW/170.8	-3.69	110
42	DTNK	PRESTON AUTO CENTRE INC	241 PRESTON ST OTTAWA ON K1R 7R3	WSW/170.8	-3.69	110

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
43	CA	City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON	N/171.1	3.31	111
44	SPL	PRIVATE RESIDENCE	112 LEBRETON ST. NORTH FURNACE OIL TANK OTTAWA CITY ON K1R 7H4	NE/171.9	4.00	111
45	SCT	INVITATIONS PLUS	193 PRESTON ST OTTAWA ON K1R 7P8	W/175.6	-3.64	112
45	CA	6176381 Canada Inc.	191-193 Preston St Ottawa ON	W/175.6	-3.64	112
45	ECA	6176381 Canada Inc.	191 - 193 Preston St Ottawa ON K2E 5A4	W/175.6	-3.64	112
46	WWIS		818 Gladstone Ave Ottawa ON Well ID: 7355926	SE/177.3	-0.69	113
47	SPL	Esso Home Comfort Centre<UNOFFICIAL>	24 Anderson St. Ottawa ON K1R 6T5	NNW/179.2	1.34	115
48	SCT	CANADIAN VETERINARY MEDICAL	339 BOOTH ST OTTAWA ON K1R 7K1	NNE/185.0	3.85	116
48	SCT	Canadian Veterinary Medical Association	339 Booth St Ottawa ON K1R 7K1	NNE/185.0	3.85	116
49	EHS		818 Gladstone Avenue Ottawa ON K1R 7N3	SE/190.9	-0.69	116
50	BORE		ON	W/192.3	-4.69	116
51	CA	R.M. OF OTTAWA-CARLETON	BALSAM AVE/PRESTON ST. OTTAWA ON	WSW/193.3	-4.00	118
51	SPL		Intersection of Balsam St and Preston St Ottawa ON	WSW/193.3	-4.00	118

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
51	INC		BALSAM ST. & PRESTON ST., OTTAWA ON	WSW/193.3	-4.00	118
52	CA	City of Ottawa	301 Preston St Ottawa ON K1R 0A6	SSE/197.0	-1.66	119
52	ECA	City of Ottawa	301 Preston St Ottawa ON K2P 1J1	SSE/197.0	-1.66	119
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	120
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	121
53	EHS		185 Preston Street Ottawa ON K1R 7P8	W/197.5	-3.61	121
54	WWIS		54 LOUISA ST Ottawa ON <i>Well ID: 7239792</i>	ESE/203.2	1.26	121
55	SPL	PRIVATE RESIDENCE	20 WILLOW ST. FURNACE OIL TANK OTTAWA CITY ON K1R 6V6	ENE/205.8	4.42	124
56	EHS		9 Anderson St Ottawa ON K1R6T4	NNW/206.6	2.36	124

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
57	EHS		224 Preston Street Ottawa ON K1R 7R1	WSW/207.5	-4.69	124
58	PRT	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON K1R6X6	ENE/209.7	3.22	125
58	RST	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA ON K1R6X6	ENE/209.7	3.22	125
58	AUWR	J & M REBUILDER	779 GLADSTONE AVE OTTAWA ON K1R 6X6	ENE/209.7	3.22	125
58	DTNK	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON K1R 6X6	ENE/209.7	3.22	125
58	DTNK	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON	ENE/209.7	3.22	126
58	AUWR	J & M REBUILDER	779 GLADSTONE AVE OTTAWA ON K1R6X6	ENE/209.7	3.22	126
58	DTNK	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	127
58	DTNK	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	127
58	DTNK	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	127
58	FST	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	127
58	FST	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	127

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
58	FST	ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	ENE/209.7	3.22	128
59	WWIS		66 LEBRETON ST. N. OTTAWA ON Well ID: 7261917	NNE/210.2	4.40	129
60	WWIS		173-177 PRESTON ST Ottawa ON Well ID: 7230093	WNW/210.4	-3.69	131
61	CA	R.M. OF OTTAWA-CARLETON	GLADSTONE AVE/PRESTON ST. OTTAWA CITY ON	SW/210.7	-4.69	134
61	CA	OTTAWA CITY	GLADSTONE AVE/PRESTON ST. CSO OTTAWA CITY ON	SW/210.7	-4.69	135
62	ECA	Padom Holdings Ltd.	173 Preston St Ottawa ON K2C 1P1	WNW/211.0	-3.69	135
63	WWIS		OTTAWA ON Well ID: 1535493	WSW/213.0	-4.69	135
64	EHS		173 Preston St Ottawa ON K1R7P6	W/213.1	-3.69	138
65	WWIS		54 LOUISA ST Ottawa ON Well ID: 7239793	ESE/214.8	1.26	138
66	WWIS		66 LEBRETON ST. N OTTAWA ON Well ID: 7261920	NNE/217.0	4.76	141
67	WWIS		ON Well ID: 7306420	NNE/217.9	4.22	144
68	PES	10278408 CANADA INC.	186 preston ottawa ON K1B 2P9	W/218.9	-5.00	145
69	WWIS		66 LEBRETON ST. N OTTAWA ON Well ID: 7261916	NNE/219.4	4.76	145

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
70	EHS		93 Lebreton St N Ottawa ON K1R7H3	NE/220.7	4.31	148
71	WWIS		54 LAWSON ST Ottawa ON <i>Well ID:</i> 7239791	ESE/221.9	1.31	149
72	CA		Lots 22, 23, 25 and part of Lots 26 & 31, '13 and 25 Willow Street Ottawa ON	ENE/222.1	4.15	152
73	SPL	PRIVATE RESIDENCE	457 BOOTH AVENUE FURNACE OIL TANK OTTAWA CITY ON K1R 7K9	ESE/223.6	0.44	152
74	EHS		54 Louisa St Ottawa ON K1R6Y8	ESE/224.2	1.39	152
75	ECA	Landsdown Developments Limited	18 willow St 18-20-22 Willow Street Lot 11 and Prt Lot 10, Reg. Plan No. 2545 Ottawa City Ottawa ON K1V 0R3	ENE/224.3	4.31	153
76	WWIS		51 LOUISA OTTAWA ON <i>Well ID:</i> 7226960	ESE/224.4	0.44	153
77	EASR	SAMIA BARAKE, MICHEL BARAKE	169 LEBRETON ST N OTTAWA ON K1R 7H7	E/226.0	3.31	156
78	EHS		181 Lebreton St N Ottawa ON K1R7H7	E/227.5	3.26	156
79	PTTW	Cornerstone Housing for Women Foundation	314 Booth Street, Ottawa, ON CITY OF OTTAWA ON	N/228.5	2.92	157
79	RSC	Cornerstone Housing for Women Foundation	314 BOOTH ST, OTTAWA, ON, K1R 7K2 ON K1R 7K2	N/228.5	2.92	157
79	GEN	Cornerstone Housing for Women Foundation	314 BOOTH STREET OTTAWA ON K1R 7K2	N/228.5	2.92	157
80	EBR	Bridgehead (2000) Inc.	130 Anderson Street Ottawa K1R 6T7 CITY OF OTTAWA ON	WNW/231.9	-3.69	158

Map Key	DB	Company/Site Name	Address	Dir/Dist (m)	Elev Diff (m)	Page Number
80	EASR	BRIDGEHEAD (2000) INC.	130 Anderson ST Ottawa ON K1R 6T7	WNW/231.9	-3.69	158
81	BORE		ON	ENE/232.4	4.31	158
82	WWIS		173-177 PRESTON ST Ottawa ON Well ID: 7230092	WNW/232.8	-4.00	160
83	EHS		Preston St & Laurel St Ottawa On Ottawa ON	W/233.5	-4.66	163
84	ECA	170 Preston Street Ltd.	170 Preston St Ottawa ON K1R 7H9	W/234.6	-4.79	163
85	WWIS		411 ARLINGTON RD. OTTAWA ON Well ID: 7226959	ESE/236.0	1.39	163
86	PES	PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON STREET OTTAWA ON K1R 7R4	WSW/238.8	-4.61	166
86	PES	PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R 7R4	WSW/238.8	-4.61	167
86	PES	PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R 7R4	WSW/238.8	-4.61	167
86	PES	PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R 7R4	WSW/238.8	-4.61	168
86	PES	PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R 7R4	WSW/238.8	-4.61	168
86	CA	Preston Hardware (1980) Limited	234-248 Preston Street Ottawa ON K1R 7R4	WSW/238.8	-4.61	168
86	PES	PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R7R4	WSW/238.8	-4.61	169

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
86	ECA	Preston Hardware (1980) Limited	234-248 Preston Street Ottawa ON K1R 7R4	WSW/238.8	-4.61	169
86	SPL		248 Preston Street Ottawa ON	WSW/238.8	-4.61	169
86	PES	PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R7R4	WSW/238.8	-4.61	170
86	PES	PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R7R4	WSW/238.8	-4.61	170
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	171
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	171
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	171
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	171
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	172
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	172
87	EHS		82-84 Eccles Street Ottawa ON K1R 6S6	NNW/239.5	2.79	172
88	EHS		44 Eccles St Ottawa ON K1R6S4	NNE/239.8	5.31	172
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	172

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	173
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	173
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	173
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	173
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	173
89	EHS		60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	NNE/241.8	5.00	174
90	EHS		314 Booth Street Ottawa ON K1R 7K2	N/245.7	4.31	174
91	EHS		23 Louisa St Ottawa ON	E/245.8	2.44	174
92	CA	Campbell, Tony John	434-436 Arlington Avenue, 469 Booth Street Ottawa ON	SE/245.8	0.34	174
92	ECA	Campbell, Tony John	469 Booth St 434- 436 Arlington Avenue Ottawa ON K1S 4M7	SE/245.8	0.34	175
93	EHS		153-157 Preston Road aka 130 Anderson St. Ottawa ON K1R 7P6	WNW/247.0	-4.00	175
93	EHS		153-157 Preston Street Ottawa ON K1R 7P6	WNW/247.0	-4.00	175

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Dir/Dist (m)</i>	<i>Elev Diff (m)</i>	<i>Page Number</i>
94	BORE		ON	NW/248.9	0.63	175
95	GEN	GREAT CANADIAN THEATRE COMPANY, THE	910 GLADSTONE AVENUE OTTAWA ON K1R 6Y3	SW/249.4	-4.69	177
95	GEN	Great Canadian Theatre Company	910 Gladstone Ottawa ON K1R 6Y4	SW/249.4	-4.69	177

Executive Summary: Summary By Data Source

AUWR - Automobile Wrecking & Supplies

A search of the AUWR database, dated 1999-Sep 30, 2021 has found that there are 3 AUWR 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>
CHADO'S PERFORMANCE & PAR	355 BOOTH ST OTTAWA ON K1R 7K1	139.5	<u>31</u>
J & M REBUILDER	779 GLADSTONE AVE OTTAWA ON K1R6X6	209.7	<u>58</u>
J & M REBUILDER	779 GLADSTONE AVE OTTAWA ON K1R 6X6	209.7	<u>58</u>

BORE - Borehole

A search of the BORE database, dated 1875-Jul 2018 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	97.2	<u>23</u>
	ON	192.3	<u>50</u>
	ON	232.4	<u>81</u>
	ON	248.9	<u>94</u>

CA - Certificates of Approval

A search of the CA database, dated 1985-Oct 30, 2011* has found that there are 13 CA 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>
Princiotta Tower Incorporated	386-394 Booth Street and 9 Balsam St Ottawa ON	46.5	<u>13</u>
OTTAWA CITY	ROCHESTER ST./GLADSTONE AVE. OTTAWA CITY ON	82.7	<u>19</u>
R.M. OF OTTAWA-CARLETON	ROCHESTER ST/GLADSTONE AVE/ELM OTTAWA CITY ON	82.7	<u>19</u>
Chado's Autobody Inc.	347 Booth Street Ottawa ON K1R 7K1	149.3	<u>36</u>
City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON	171.1	<u>43</u>
6176381 Canada Inc.	191-193 Preston St Ottawa ON	175.6	<u>45</u>
R.M. OF OTTAWA-CARLETON	BALSAM AVE/PRESTON ST. OTTAWA ON	193.3	<u>51</u>
City of Ottawa	301 Preston St Ottawa ON K1R 0A6	197.0	<u>52</u>
R.M. OF OTTAWA-CARLETON	GLADSTONE AVE/PRESTON ST. OTTAWA CITY ON	210.7	<u>61</u>
OTTAWA CITY	GLADSTONE AVE/PRESTON ST. CSO OTTAWA CITY ON	210.7	<u>61</u>
	Lots 22, 23, 25 and part of Lots 26 & 31, '13 and 25 Willow Street Ottawa ON	222.1	<u>72</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Preston Hardware (1980) Limited	234-248 Preston Street Ottawa ON K1R 7R4	238.8	86
Campbell, Tony John	434-436 Arlington Avenue, 469 Booth Street Ottawa ON	245.8	92

DTNK - Delisted Fuel Tanks

A search of the DTNK database, dated May 31, 2021 has found that there are 6 DTNK 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>
PRESTON AUTO CENTRE INC	241 PRESTON ST OTTAWA ON K1R 7R3	170.8	42
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON K1R 6X6	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	209.7	58

EASR - Environmental Activity and Sector Registry

A search of the EASR database, dated Oct 2011- Nov 30, 2021 has found that there are 4 EASR 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>
GORDON BARR LIMITED	811 Gladstone AVE Ottawa ON K2P 0R4	60.9	17
LAURENT LEBLANC LIMITED	151 Willow ST Ottawa ON K1R 6W2	162.4	40
SAMIA BARAKE, MICHEL BARAKE	169 LEBRETON ST N OTTAWA ON K1R 7H7	226.0	77
BRIDGEHEAD (2000) INC.	130 Anderson ST Ottawa ON K1R 6T7	231.9	80

EBR - Environmental Registry

A search of the EBR database, dated 1994 - Dec 31, 2021 has found that there are 2 EBR 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>
Chado's Autobody Inc.	347 Booth Street Ottawa Ontario K1R 7K1 Ottawa ON	149.3	36
Bridgehead (2000) Inc.	130 Anderson Street Ottawa K1R 6T7 CITY OF OTTAWA ON	231.9	80

ECA - Environmental Compliance Approval

A search of the ECA database, dated Oct 2011- Nov 30, 2021 has found that there are 27 ECA site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Princiotta Tower Incorporated	386-394 Booth Street and 9 Balsam St Ottawa ON K4P 1M5	46.5	13
Princiotta Tower Incorporated	Lot 256 and Part of Lot 257, Registered Plan 16 Ottawa ON K4P 1M5	60.7	15

Site	Address	Distance (m)	Map Key
Ottawa Community Housing Corporation	811 Gladstone Ave Ottawa ON K2E 7Y8	60.9	<u>17</u>
360 Booth Street Inc.	360 Booth Street Ottawa ON K2P 1K6	83.0	<u>21</u>
City of Ottawa	Adeline Street - CP Railway to Rochester Street Ottawa ON K1V 6A6	121.7	<u>26</u>
City of Ottawa	Booth (from Somerset Street to Primrose) Ottawa ON K2G 6J8	121.7	<u>26</u>
City of Ottawa	Adeline Street - CP Railway to Rochester Street Ottawa ON K1V 6A6	121.7	<u>26</u>
City of Ottawa	Preston Street , Young Street, Sidney Street & Norfolk Avenue Ottawa ON K1P 1J1	121.7	<u>26</u>
City of Ottawa	Booth (from Somerset Street to Primrose) Ottawa ON K2G 6J8	121.7	<u>26</u>
City of Ottawa	Somerset Street between West of Preston Street to Preston Ottawa ON K1P 1J1	121.7	<u>26</u>
City of Ottawa	Larch Street and Laurel Street Ottawa ON K2P 1J1	121.7	<u>26</u>
City of Ottawa	Oak Street & Pamilla Street Ottawa ON K2G 6J8	121.7	<u>26</u>
City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	121.7	<u>26</u>
City of Ottawa	Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	121.7	<u>26</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
City of Ottawa	Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	121.7	<u>26</u>
City of Ottawa	Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	121.7	<u>26</u>
City of Ottawa	Preston Street Ottawa ON K1P 1J1	121.7	<u>26</u>
City of Ottawa	Preston Street (Albert Street to Carling Avenue) Ottawa ON K1P 1J1	121.7	<u>26</u>
345 Booth St Ltd	345 - 357 Booth St Ottawa ON K2P 1A1	149.3	<u>35</u>
Chado's Autobody Inc.	347 Booth Street Ottawa ON K1R 7K1	149.3	<u>36</u>
6176381 Canada Inc.	191 - 193 Preston St Ottawa ON K2E 5A4	175.6	<u>45</u>
City of Ottawa	301 Preston St Ottawa ON K2P 1J1	197.0	<u>52</u>
Padom Holdings Ltd.	173 Preston St Ottawa ON K2C 1P1	211.0	<u>62</u>
Landsdown Developments Limited	18 willow St 18-20-22 Willow Street Lot 11 and Prt Lot 10, Reg. Plan No. 2545 Ottawa City Ottawa ON K1V 0R3	224.3	<u>75</u>
170 Preston Street Ltd.	170 Preston St Ottawa ON K1R 7H9	234.6	<u>84</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Preston Hardware (1980) Limited	234-248 Preston Street Ottawa ON K1R 7R4	238.8	<u>86</u>
Campbell, Tony John	469 Booth St 434- 436 Arlington Avenue Ottawa ON K1S 4M7	245.8	<u>92</u>

EHS - ERIS Historical Searches

A search of the EHS database, dated 1999-Nov 30, 2021 has found that there are 52 EHS site(s) within approximately 0.25 kilometers of the project property.

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	247 Rochester St Ottawa ON K1R7M9	4.4	<u>2</u>
	90 Willow Street Ottawa ON K1R 6W1	13.0	<u>4</u>
	13 Balsam Street Ottawa ON K1R 6W6	23.5	<u>5</u>
	13 Balsam Street Ottawa ON K1R 6W6	23.5	<u>5</u>
	13 Balsam Street Ottawa ON K1R 6W6	23.5	<u>5</u>
	13 Balsam Street Ottawa ON K1R 6W6	23.5	<u>5</u>
	250 Rochester Street, Ottawa ON K1R 7N1	27.2	<u>7</u>
	250 Rochester Street, Ottawa ON K1R 7N1	27.2	<u>7</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	250 Rochester Street, Ottawa ON K1R 7N1	27.2	<u>7</u>
	250 Rochester Street, Ottawa ON K1R 7N1	27.2	<u>7</u>
	13 Balsam Street Ottawa ON	32.9	<u>10</u>
	811 Gladstone Ave Ottawa ON K1R6Y1	42.1	<u>12</u>
	Gladstone Ave Rochester St Ottawa ON	82.7	<u>20</u>
	811 Gladstone Ave Ottawa ON K1R 6Y1	95.1	<u>22</u>
	470 Booth Street Ottawa ON K1R 7N3	118.3	<u>25</u>
	300 Rochester Street Ottawa ON K1R 7N4	136.2	<u>30</u>
	345 TO 357 BOOTH ST OTTAWA ON	139.5	<u>31</u>
	225 Preston St. Ottawa ON K1R 7R1	153.1	<u>37</u>
	818 Gladstone Avenue Ottawa ON K1R 7N3	190.9	<u>49</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	185 Preston Street Ottawa ON K1R 7P8	197.5	<u>53</u>
	9 Anderson St Ottawa ON K1R6T4	206.6	<u>56</u>
	224 Preston Street Ottawa ON K1R 7R1	207.5	<u>57</u>
	173 Preston St Ottawa ON K1R7P6	213.1	<u>64</u>
	93 Lebreton St N Ottawa ON K1R7H3	220.7	<u>70</u>
	54 Louisa St Ottawa ON K1R6Y8	224.2	<u>74</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	181 Lebreton St N Ottawa ON K1R7H7	227.5	<u>78</u>
	Preston St & Laurel St Ottawa On Ottawa ON	233.5	<u>83</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	82-84 Eccles Street Ottawa ON K1R 6S6	239.5	<u>87</u>
	44 Eccles St Ottawa ON K1R6S4	239.8	<u>88</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	241.8	<u>89</u>
	314 Booth Street Ottawa ON K1R 7K2	245.7	<u>90</u>
	23 Louisa St Ottawa ON	245.8	<u>91</u>
	153-157 Preston Road aka 130 Anderson St. Ottawa ON K1R 7P6	247.0	<u>93</u>
	153-157 Preston Street Ottawa ON K1R 7P6	247.0	<u>93</u>

FST - Fuel Storage Tank

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

Site	Address	Distance (m)	Map Key
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	209.7	58
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	209.7	58

GEN - Ontario Regulation 347 Waste Generators Summary

A search of the GEN database, dated 1986-Nov 30, 2021 has found that there are 48 GEN site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
2363251 Ontario Inc.	250 Rochester Street Ottawa ON K1R 7N1	27.3	8
City of Ottawa	ROW Adjacent to 234-254 Rochester Street OTTAWA ON K1R 7N1	31.3	9
Princiotta Towers Inc.	388 Booth St. Ottawa ON	46.5	13
MCCONOMY RACING ENTERPRISES LTD.	23-4 POPLAR STREET OTTAWA ON K1R 6V1	114.9	24
OTTAWA BOARD OF EDUCATION	HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	136.2	30
OTTAWA BOARD OF EDUCATION	HIGH SCHOOL OF COMMERCE 300 ROCHESTER STREET OTTAWA ON K1R 7N4	136.2	30
OTTAWA BOARD OF EDUCATION 29-129	HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	136.2	30

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
Ottawa-Carleton District School Board	Adult Continuing Education Centre 300 Rochester St. Ottawa ON K1R 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>

Site	Address	Distance (m)	Map Key
OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety	ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	136.2	<u>30</u>
HARVEY SIGNS LIMITED	351 BOOTH STREET OTTAWA ON K1R 7K1	139.5	<u>31</u>
HARVEY SIGNS LIMITED	351 BOOTH STREET OTTAWA ON K1R 7K1	139.5	<u>31</u>
HARVEY SIGNS LIMITED 19-298	351 BOOTH STREET OTTAWA ON K1R 7K1	139.5	<u>31</u>
Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	148.1	<u>33</u>
Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	148.1	<u>33</u>
Central Tenant Services	865 Gladstone Ottawa ON K1R 7T4	148.1	<u>33</u>
Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	148.1	<u>33</u>
Ottawa Community Housing	865 Gladstone Ottawa ON K1R 7T4	148.1	<u>33</u>
297 Bank St Ltd	347 Booth Street Ottawa ON	149.3	<u>36</u>
LA PAUSE VELO LTEE/BIKE STOP, THE	225 PRESTON STREET, REAR UNIT OTTAWA ON K1R 7R1	153.1	<u>37</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
LA PAUSE VELO LIMITEE	225 PRESTON STREET OTTAWA ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Preston Medical Management Inc.	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Appletree Corporate Medical Centre 204	225 Preston Street Ottawa ON K1R 7R1	153.1	<u>37</u>
Ottawa Community Housing	818 Gladstone Ave Ottawa ON K2R 7Y8	161.9	<u>39</u>
Ottawa Community Housing	818 Gladstone Ave Ottawa ON K2R 7Y8	161.9	<u>39</u>
Cornerstone Housing for Women Foundation	314 BOOTH STREET OTTAWA ON K1R 7K2	228.5	<u>79</u>
GREAT CANADIAN THEATRE COMPANY, THE	910 GLADSTONE AVENUE OTTAWA ON K1R 6Y3	249.4	<u>95</u>
Great Canadian Theatre Company	910 Gladstone Ottawa ON K1R 6Y4	249.4	<u>95</u>

INC - Fuel Oil Spills and Leaks

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

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	BALSAM ST. & PRESTON ST., OTTAWA ON	193.3	<u>51</u>

PES - Pesticide Register

A search of the PES database, dated Oct 2011- Nov 30, 2021 has found that there are 9 PES site(s) within approximately 0.25 kilometers of the project property.

Site	Address	Distance (m)	Map Key
10278408 CANADA INC.	186 preston ottawa ON K1B 2P9	218.9	68
PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R7R4	238.8	86
PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R7R4	238.8	86
PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R7R4	238.8	86
PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R 7R4	238.8	86
PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON ST OTTAWA ON K1R 7R4	238.8	86
PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R 7R4	238.8	86
PRESTON HARDWARE 1980 LIMITED	248 PRESTON ST OTTAWA ON K1R 7R4	238.8	86
PRESTON HARDWARE (1980) LIMITED	234-248 PRESTON STREET OTTAWA ON K1R 7R4	238.8	86

PINC - Pipeline Incidents

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

Site	Address	Distance (m)	Map Key
IN-DEPTH CONSTRUCTION	228 ROCHESTER ST.,OTTAWA,ON,K1R 7M8,CA ON	59.3	14

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
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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>	<u>Distance (m)</u>	<u>Map Key</u>
PRESTON AUTO CENTRE INC	241 PRESTON ST OTTAWA ON K1R 7R3	170.8	42
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE OTTAWA ON K1R6X6	209.7	58

PTTW - Permit to Take Water

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

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Cornerstone Housing for Women Foundation	314 Booth Street, Ottawa, ON CITY OF OTTAWA ON	228.5	79

RSC - Record of Site Condition

A search of the RSC database, dated 1997-Sept 2001, Oct 2004-Nov 2021 has found that there are 2 RSC 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>
345 Booth Street Ltd	345 - 357 BOOTH STREET, OTTAWA, ONTARIO K1R 7K1 Ottawa ON	149.3	35
Cornerstone Housing for Women Foundation	314 BOOTH ST, OTTAWA, ON, K1R 7K2 ON K1R 7K2	228.5	79

RST - Retail Fuel Storage Tanks

A search of the RST database, dated 1999-Sep 30, 2021 has found that there are 1 RST 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>
ANGELO LORELLI SERVICE CENTRE LTD	779 GLADSTONE AVE OTTAWA ON K1R6X6	209.7	58

SCT - Scott's Manufacturing Directory

A search of the SCT database, dated 1992-Mar 2011* has found that there are 5 SCT 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>
The Original Maple Bat Company	202 Rochester St Ottawa ON K1R 7M6	131.1	27
The Original Maple Bat Company	202 Ronchester St Ottawa ON K1R 7M6	131.2	28
INVITATIONS PLUS	193 PRESTON ST OTTAWA ON K1R 7P8	175.6	45
Canadian Veterinary Medical Association	339 Booth St Ottawa ON K1R 7K1	185.0	48
CANADIAN VETERINARY MEDICAL	339 BOOTH ST OTTAWA ON K1R 7K1	185.0	48

SPL - Ontario Spills

A search of the SPL database, dated 1988-Sep 2020 has found that there are 10 SPL 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>
Enbridge Gas Distribution Inc.	228 Rochester St. Ottawa ON	59.3	14
City of Ottawa	Intersection Gladstone St & Rochester St Ottawa ON	82.7	20

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
Enbridge Gas Distribution Inc.	43 Willow Street Ottawa ON	148.7	34
City of Ottawa	South East corner of Preston and Balsam 241 PRESTON STREET, OTTAWA<UNOFFICIAL> Ottawa ON K1R 7R3	170.8	42
PRIVATE RESIDENCE	112 LEBRETON ST. NORTH FURNACE OIL TANK OTTAWA CITY ON K1R 7H4	171.9	44
Esso Home Comfort Centre<UNOFFICIAL>	24 Anderson St. Ottawa ON K1R 6T5	179.2	47
	Intersection of Balsam St and Preston St Ottawa ON	193.3	51
PRIVATE RESIDENCE	20 WILLOW ST. FURNACE OIL TANK OTTAWA CITY ON K1R 6V6	205.8	55
PRIVATE RESIDENCE	457 BOOTH AVENUE FURNACE OIL TANK OTTAWA CITY ON K1R 7K9	223.6	73
	248 Preston Street Ottawa ON	238.8	86

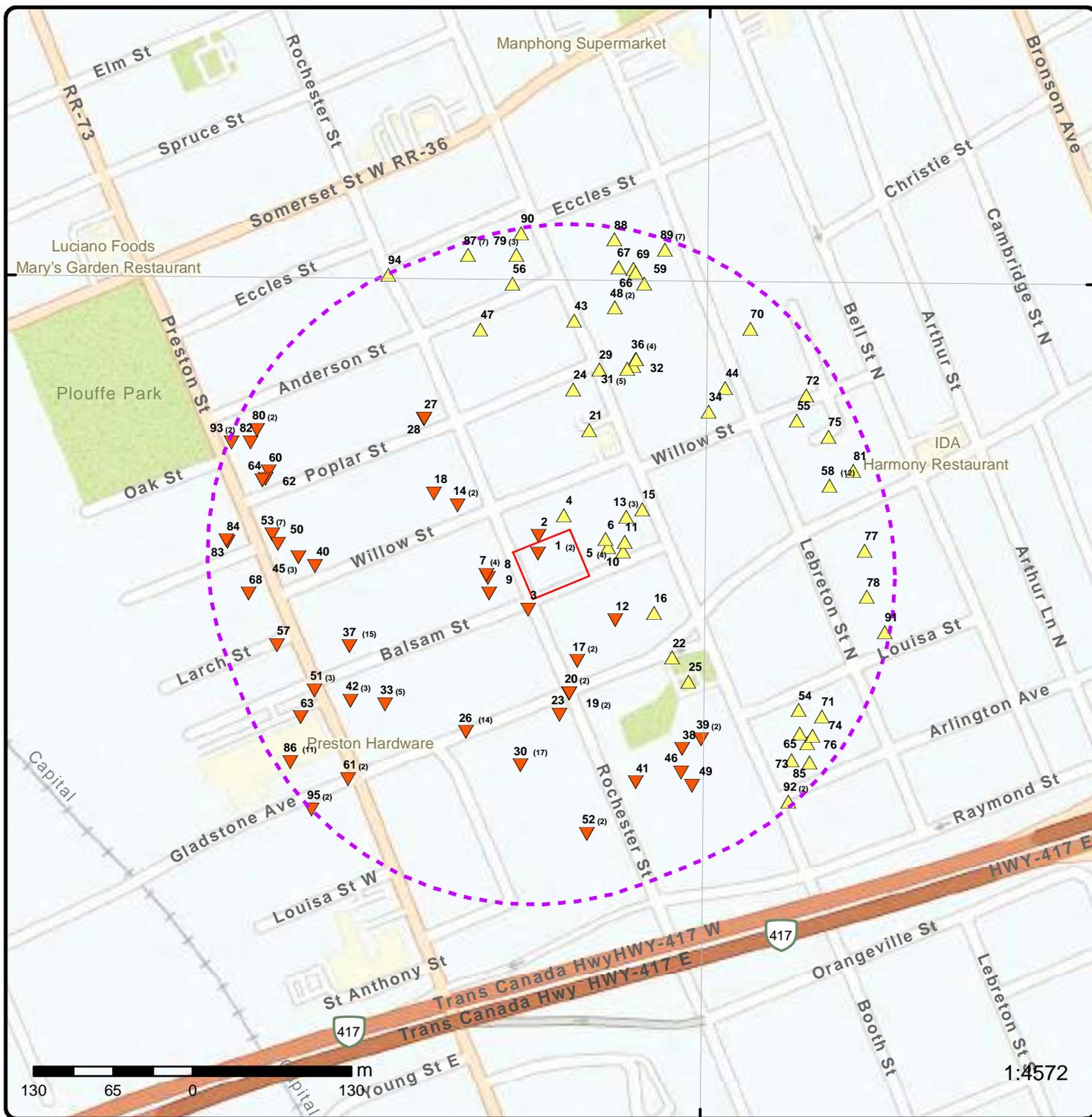
WWIS - Water Well Information System

A search of the WWIS database, dated Apr 30, 2021 has found that there are 24 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>
	249 ROCHESTER Ottawa ON <i>Well ID: 7204253</i>	0.0	1

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	249 ROCHESTER ST Ottawa ON <i>Well ID: 7204254</i>	0.0	<u>1</u>
	280 Rochester St. Ottawa ON <i>Well ID: 7353770</i>	9.6	<u>3</u>
	ON <i>Well ID: 7204974</i>	23.6	<u>6</u>
	13 BALSAM STREET OTTAWA ON <i>Well ID: 7197903</i>	37.6	<u>11</u>
	ON <i>Well ID: 7297428</i>	60.8	<u>16</u>
	26 BALSAM Ottawa ON <i>Well ID: 7204405</i>	80.6	<u>18</u>
	357 BOOTH ST. Ottawa ON <i>Well ID: 7169258</i>	133.4	<u>29</u>
	ON <i>Well ID: 7199618</i>	143.8	<u>32</u>
	818 Gladstone Ave Ottawa ON <i>Well ID: 7355925</i>	160.8	<u>38</u>
	347 ROCHESTER ST Ottawa ON <i>Well ID: 7204404</i>	170.5	<u>41</u>
	818 Gladstone Ave Ottawa ON <i>Well ID: 7355926</i>	177.3	<u>46</u>
	54 LOUISA ST Ottawa ON	203.2	<u>54</u>

<u>Site</u>	<u>Address</u>	<u>Distance (m)</u>	<u>Map Key</u>
	<i>Well ID: 7239792</i>		
	66 LEBRETON ST. N. OTTAWA ON	210.2	<u>59</u>
	<i>Well ID: 7261917</i>		
	173-177 PRESTON ST Ottawa ON	210.4	<u>60</u>
	<i>Well ID: 7230093</i>		
	OTTAWA ON	213.0	<u>63</u>
	<i>Well ID: 1535493</i>		
	54 LOUISA ST Ottawa ON	214.8	<u>65</u>
	<i>Well ID: 7239793</i>		
	66 LEBRETON ST. N OTTAWA ON	217.0	<u>66</u>
	<i>Well ID: 7261920</i>		
	ON	217.9	<u>67</u>
	<i>Well ID: 7306420</i>		
	66 LEBRETON ST. N OTTAWA ON	219.4	<u>69</u>
	<i>Well ID: 7261916</i>		
	54 LAWSON ST Ottawa ON	221.9	<u>71</u>
	<i>Well ID: 7239791</i>		
	51 LOUISA OTTAWA ON	224.4	<u>76</u>
	<i>Well ID: 7226960</i>		
	173-177 PRESTON ST Ottawa ON	232.8	<u>82</u>
	<i>Well ID: 7230092</i>		
	411 ARLINFTON RD. OTTAWA ON	236.0	<u>85</u>
	<i>Well ID: 7226959</i>		



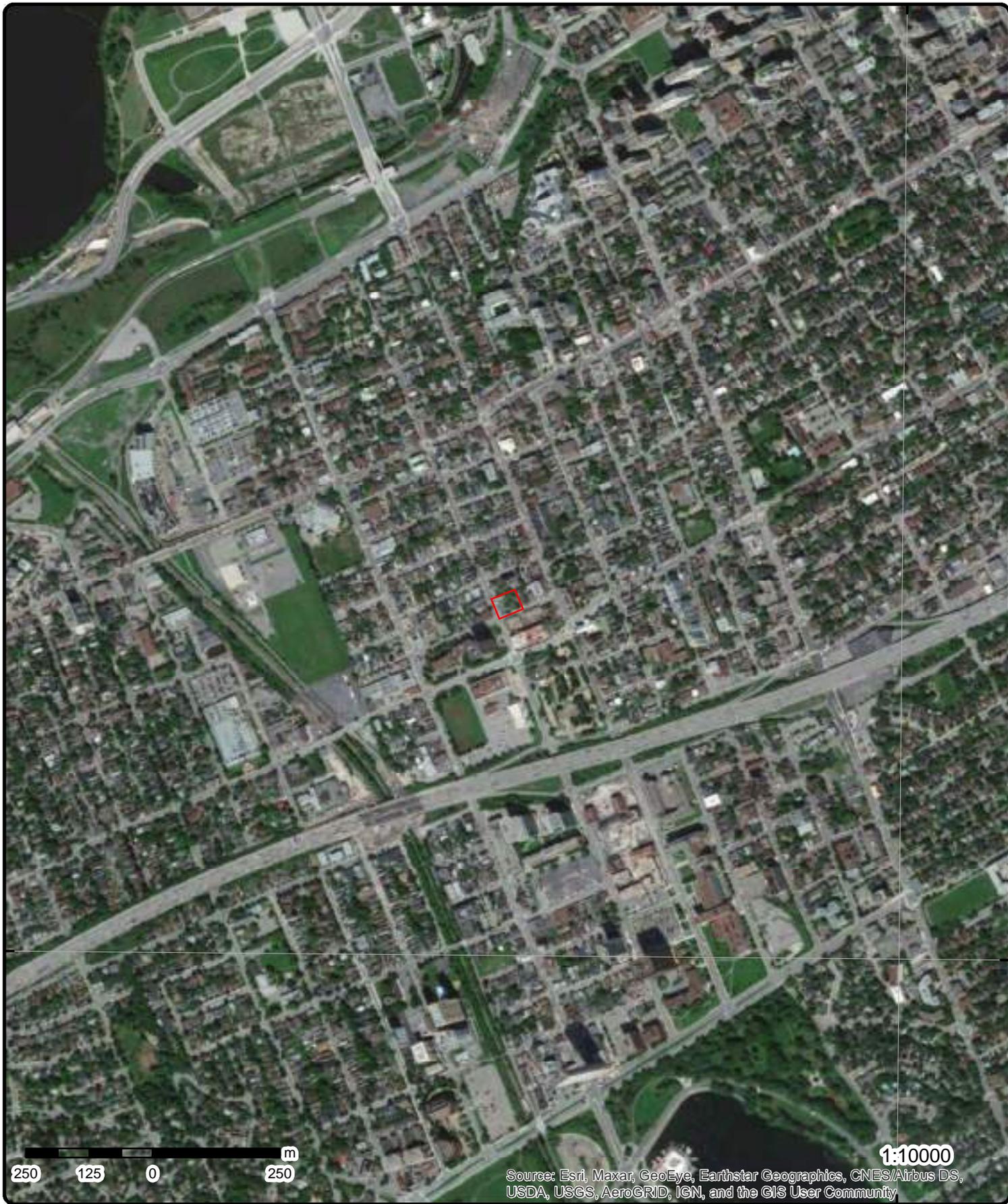
Map: 0.25 Kilometer Radius

Order Number: 22010600157

Address: R63048, Ottawa, ON



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



45°24'N

45°24'N

250 125 0 250 m

1:10000

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Aerial Year: 2020

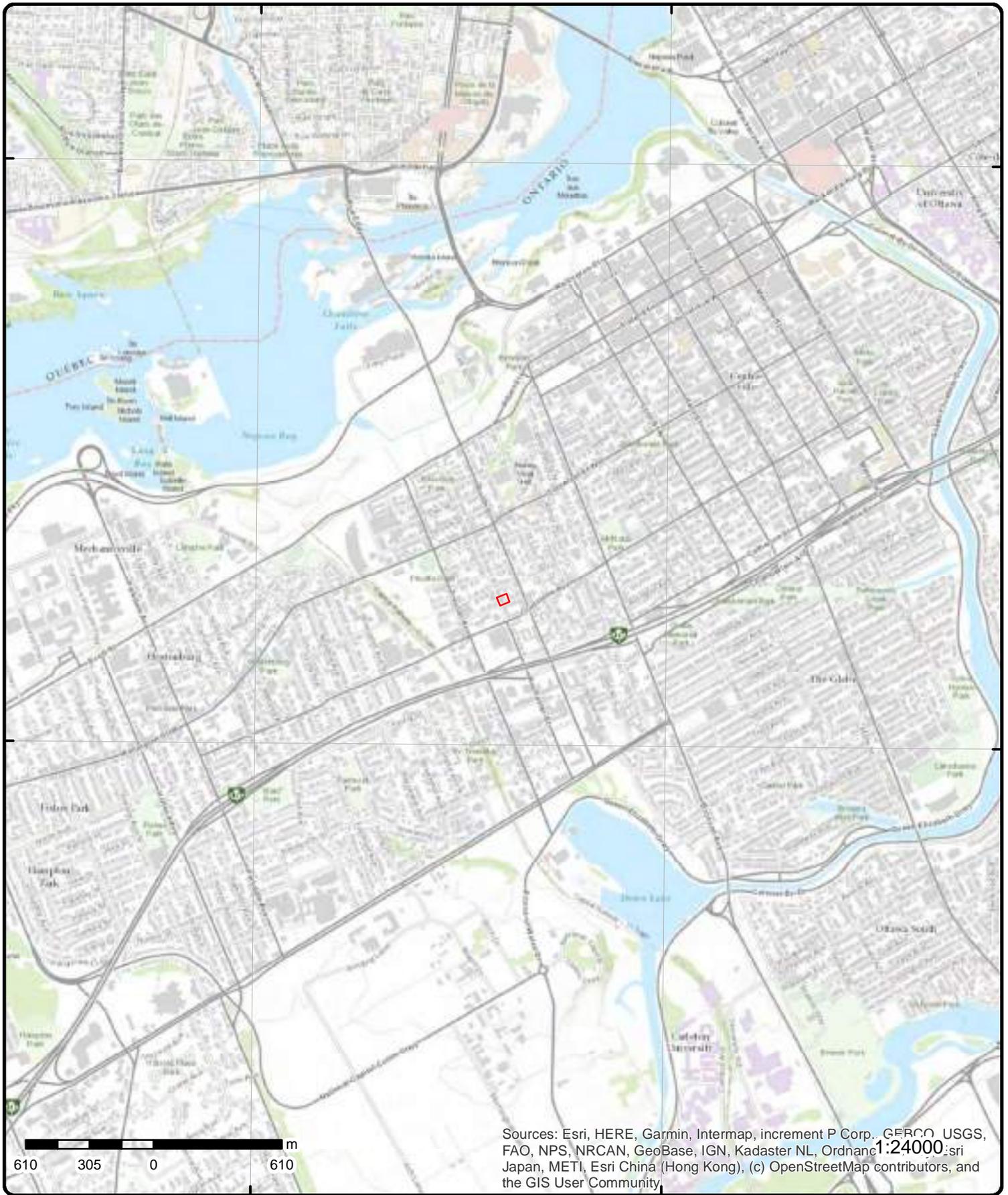
Order Number: 22010600157

Address: R63048, Ottawa, ON



Source: ESRI World Imagery

© ERIS Information Limited Partnership



Topographic Map

Order Number: 22010600157

Address: R63048, ON



Source: ESRI World Topographic Map

© ERIS Information Limited Partnership

Detail Report

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>1</u>	1 of 2	WNW/0.0	69.8 / -0.73	249 ROCHESTER Ottawa ON	WWIS

Well ID: 7204253
Construction Date:
Primary Water Use: Monitoring and Test Hole
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z168910
Tag: _NO_TAG
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:
Pump Rate:
Static Water Level:
Flowing (Y/N):
Flow Rate:
Clear/Cloudy:

Data Entry Status:
Data Src:
Date Received: 7/5/2013
Selected Flag: True
Abandonment Rec:
Contractor: 7241
Form Version: 7
Owner:
Street Name: 249 ROCHESTER
County: OTTAWA
Municipality: OTTAWA CITY
Site Info:
Lot:
Concession:
Concession Name:
Easting NAD83:
Northing NAD83:
Zone:
UTM Reliability:

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204253.pdf

Additional Detail(s) (Map)

Well Completed Date: 2013/05/22
Year Completed: 2013
Depth (m): 4.88
Latitude: 45.4063180887206
Longitude: -75.7100648532507
Path: 720\7204253.pdf

Bore Hole Information

Bore Hole ID: 1004397059 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 22-May-2013 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:	Elevation: 66.924903 Elevrc: Zone: 18 East83: 444433.00 North83: 5028334.00 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Overburden and Bedrock Materials Interval

Formation ID: 1004810161
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.3100000023841858
Formation End Depth: 2.740000009536743
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004810162
Layer: 3
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 2.740000009536743
Formation End Depth: 4.880000114440918
Formation End Depth UOM: m

Overburden and Bedrock Materials Interval

Formation ID: 1004810160
Layer: 1
Color: 6
General Color: BROWN
Mat1: 01
Most Common Material: FILL
Mat2:
Mat2 Desc:
Mat3:
Mat3 Desc:
Formation Top Depth: 0.0
Formation End Depth: 0.3100000023841858
Formation End Depth UOM: m

Annular Space/Abandonment Sealing Record

Plug ID: 1004810171
Layer: 2
Plug From: 0.910000026226044
Plug To: 1.5
Plug Depth UOM: m

Annular Space/Abandonment Sealing Record

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
Plug ID:		1004810170			
Layer:		1			
Plug From:		0			
Plug To:		0.910000026226044			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004810172			
Layer:		3			
Plug From:		1.5			
Plug To:		4.88000011444092			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004810169			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004810159			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004810165			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		1.83000004291534			
Casing Diameter:		3.45000004768372			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004810166			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.83000004291534			
Screen End Depth:		4.88000011444092			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1004810164			
Layer:					
Kind Code:					
Kind:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth:					
Water Found Depth UOM:		m			
Hole Diameter					
Hole ID:		1004810163			
Diameter:		5.710000038146973			
Depth From:		0.0			
Depth To:		4.880000114440918			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

1	2 of 2	WNW/0.0	69.8 / -0.73	249 ROCHESTER ST Ottawa ON	WWIS
Well ID:		7204254		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Monitoring and Test Hole		Date Received: 7/5/2013	
Sec. Water Use:		Test Hole		Selected Flag: True	
Final Well Status:		Test Hole		Abandonment Rec:	
Water Type:				Contractor: 7241	
Casing Material:				Form Version: 7	
Audit No:		Z154404		Owner:	
Tag:		A145283		Street Name: 249 ROCHESTER ST	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: NEPEAN TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204254.pdf

Additional Detail(s) (Map)

Well Completed Date: 2013/05/26
Year Completed: 2013
Depth (m): 4.57
Latitude: 45.4063180887206
Longitude: -75.7100648532507
Path: 720\7204254.pdf

Bore Hole Information

Bore Hole ID:	1004397062	Elevation:	66.924903
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444433.00
Code OB Desc:		North83:	5028334.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	26-May-2013 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004810174			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		4.570000171661377			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004810185			
Layer:		3			
Plug From:		2.74000000953674			
Plug To:		4.57000017166138			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004810184			
Layer:		2			
Plug From:		1.83000004291534			
Plug To:		2.74000000953674			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1004810183			
Layer:		1			
Plug From:		0			
Plug To:		1.87999999523163			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1004810182			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004810173			
Casing No:		0			
Comment:					

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

Construction Record - Casing

Casing ID: 1004810178
 Layer: 1
 Material: 5
 Open Hole or Material: PLASTIC
 Depth From: 0
 Depth To: 3.09999990463257
 Casing Diameter: 3.45000004768372
 Casing Diameter UOM: cm
 Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004810179
 Layer: 1
 Slot: 10
 Screen Top Depth: 3.09999990463257
 Screen End Depth: 4.57000017166138
 Screen Material: 5
 Screen Depth UOM: m
 Screen Diameter UOM: cm
 Screen Diameter: 4.21000003814697

Water Details

Water ID: 1004810177
 Layer:
 Kind Code:
 Kind:
 Water Found Depth:
 Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004810175
 Diameter: 8.0
 Depth From: 0.0
 Depth To: 1.8300000429153442
 Hole Depth UOM: m
 Hole Diameter UOM: cm

Hole Diameter

Hole ID: 1004810176
 Diameter: 5.710000038146973
 Depth From: 1.8300000429153442
 Depth To: 4.570000171661377
 Hole Depth UOM: m
 Hole Diameter UOM: cm

2	1 of 1	NW/4.4	70.5 / -0.12	247 Rochester St Ottawa ON K1R7M9	EHS
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Order No:	20171220166	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Standard Express Report	Client Prov/State:	ON
Report Date:	20-DEC-17	Search Radius (km):	.25
Date Received:	20-DEC-17	X:	-75.710062

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Previous Site Name:				Y:	45.406445
Lot/Building Size:					
Additional Info Ordered:					

3	1 of 1	SW/9.6	69.9 / -0.64	280 Rochester St. Ottawa ON	WWIS
Well ID:		7353770	Data Entry Status:		
Construction Date:			Data Src:		
Primary Water Use:			Date Received: 2/19/2020		
Sec. Water Use:			Selected Flag: True		
Final Well Status:			Abandonment Rec:		
Water Type:			Contractor: 1844		
Casing Material:			Form Version: 7		
Audit No:		Z231075	Owner:		
Tag:		A279030	Street Name: 280 Rochester St.		
Construction Method:			County: OTTAWA		
Elevation (m):			Municipality: OTTAWA CITY		
Elevation Reliability:			Site Info:		
Depth to Bedrock:			Lot:		
Well Depth:			Concession:		
Overburden/Bedrock:			Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Level:			Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2012/12/11
Year Completed:	2012
Depth (m):	2.151888
Latitude:	45.4059034259752
Longitude:	-75.710161885585
Path:	

Bore Hole Information

Bore Hole ID:	1008157001	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444425.00
Code OB Desc:		North83:	5028288.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	11-Dec-2012 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	gis
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock
Materials Interval

Formation ID:	1008240693
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		1			
Color:					
General Color:					
Mat1:		01			
Most Common Material:		FILL			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		1.5199999809265137			
Formation End Depth UOM:		ft			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1008240694			
Layer:		2			
Color:					
General Color:					
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		1.5199999809265137			
Formation End Depth:		7.059999942779541			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1008240950			
Layer:		1			
Plug From:		0			
Plug To:		3.75			
Plug Depth UOM:		ft			
<u>Pipe Information</u>					
Pipe ID:		1008240290			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1008241486			
Layer:		1			
Slot:		10			
Screen Top Depth:					
Screen End Depth:					
Screen Material:		5			
Screen Depth UOM:					
Screen Diameter UOM:		inch			
Screen Diameter:		5.84999990463257			
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1008241692			
Pump Set At:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Static Level: Final Level After Pumping: Recommended Pump Depth: Pumping Rate: Flowing Rate: Recommended Pump Rate: Levels UOM: ft Rate UOM: GPM Water State After Test Code: Water State After Test: Pumping Test Method: 0 Pumping Duration HR: Pumping Duration MIN: Flowing:					
<u>Water Details</u>					
Water ID: 1008241577 Layer: 1 Kind Code: 8 Kind: Untested Water Found Depth: 3.869999885559082 Water Found Depth UOM: ft					
<u>Hole Diameter</u>					
Hole ID: 1008241116 Diameter: 7.619999885559082 Depth From: 1.5199999809265137 Depth To: 7.059999942779541 Hole Depth UOM: ft Hole Diameter UOM: Inch					
<u>Hole Diameter</u>					
Hole ID: 1008241115 Diameter: 20.299999237060547 Depth From: 0.0 Depth To: 1.5199999809265137 Hole Depth UOM: ft Hole Diameter UOM: Inch					

<u>4</u>	1 of 1	NNE/13.0	70.9 / 0.33	90 Willow Street Ottawa ON K1R 6W1	EHS
Order No: 20101012034 Status: C Report Type: Standard Report Report Date: 10/21/2010 Date Received: 10/12/2010 3:14:17 PM Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): 0.25 X: -75.709799 Y: 45.406605			

<u>5</u>	1 of 4	ENE/23.5	70.8 / 0.27	13 Balsam Street Ottawa ON K1R 6W6	EHS
Order No: 20300500071 Status: C Report Type: Standard Report Report Date: 08-OCT-20		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Received: 05-OCT-20 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
5	2 of 4	ENE/23.5	70.8 / 0.27	13 Balsam Street Ottawa ON K1R 6W6	EHS
Order No: 20300500071 Status: C Report Type: Standard Report Report Date: 08-OCT-20 Date Received: 05-OCT-20 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.709331 Y: 45.4063741					
5	3 of 4	ENE/23.5	70.8 / 0.27	13 Balsam Street Ottawa ON K1R 6W6	EHS
Order No: 20300500071 Status: C Report Type: Standard Report Report Date: 08-OCT-20 Date Received: 05-OCT-20 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.709331 Y: 45.4063741					
5	4 of 4	ENE/23.5	70.8 / 0.27	13 Balsam Street Ottawa ON K1R 6W6	EHS
Order No: 20300500071 Status: C Report Type: Standard Report Report Date: 08-OCT-20 Date Received: 05-OCT-20 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.709331 Y: 45.4063741					
6	1 of 1	ENE/23.6	71.5 / 0.88	ON	WWIS
Well ID: 7204974 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: C21830 Tag: A132275 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock:					
Data Entry Status: Yes Data Src: Date Received: 7/19/2013 Selected Flag: True Abandonment Rec: Contractor: 6964 Form Version: 8 Owner: Street Name: County: OTTAWA Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):					
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2012/12/11			
Year Completed:		2012			
Depth (m):					
Latitude:		45.4064304625982			
Longitude:		-75.70936343992			
Path:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1004440394			Elevation:	67.725158
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	444488.00
Code OB Desc:				North83:	5028346.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	11-Dec-2012 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
7	1 of 4	W/27.2	69.6 / -1.00	250 Rochester Street, Ottawa ON K1R 7N1	EHS
Order No:	20300700116			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	15-OCT-20			Search Radius (km):	.25
Date Received:	07-OCT-20			X:	-75.7105981
Previous Site Name:				Y:	45.4061566
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory				
7	2 of 4	W/27.2	69.6 / -1.00	250 Rochester Street, Ottawa ON K1R 7N1	EHS
Order No:	20300700116			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	15-OCT-20			Search Radius (km):	.25
Date Received:	07-OCT-20			X:	-75.7105981
Previous Site Name:				Y:	45.4061566
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
7	3 of 4	W/27.2	69.6 / -1.00	250 Rochester Street, Ottawa ON K1R 7N1	EHS
Order No:	20300700116			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	15-OCT-20			Search Radius (km):	.25
Date Received:	07-OCT-20			X:	-75.7105981
Previous Site Name:				Y:	45.4061566
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory				
7	4 of 4	W/27.2	69.6 / -1.00	250 Rochester Street, Ottawa ON K1R 7N1	EHS
Order No:	20300700116			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	15-OCT-20			Search Radius (km):	.25
Date Received:	07-OCT-20			X:	-75.7105981
Previous Site Name:				Y:	45.4061566
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches; City Directory				
8	1 of 1	W/27.3	69.6 / -1.00	2363251 Ontario Inc. 250 Rochester Street Ottawa ON K1R 7N1	GEN
Generator No:	ON6771251			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Apr 2021			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
Detail(s)					
Waste Class:	146 L				
Waste Class Desc:	Other specified inorganic sludges, slurries or solids				
9	1 of 1	WSW/31.3	68.8 / -1.82	City of Ottawa ROW Adjacent to 234-254 Rochester Street OTtawa ON K1R 7N1	GEN
Generator No:	ON4217022			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Dec 2018			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
Detail(s)					
Waste Class:	241 L				
Waste Class Desc:	Halogenated solvents and residues				
10	1 of 1	E/32.9	70.8 / 0.27	13 Balsam Street Ottawa ON	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Order No:	20120711042			Nearest Intersection:	
Status:	C			Municipality:	City of Ottawa
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	20-JUL-12			Search Radius (km):	.25
Date Received:	11-JUL-12			X:	-75.70918
Previous Site Name:	Unknown			Y:	45.40634
Lot/Building Size:	300 sm				
Additional Info Ordered:					

<u>11</u>	1 of 1	ENE/37.6	71.9 / 1.36	13 BALSAM STREET OTTAWA ON	WWIS
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Well ID:	7197903	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring	Date Received:	3/4/2013
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	1844
Casing Material:		Form Version:	7
Audit No:	Z161256	Owner:	
Tag:	A130167	Street Name:	13 BALSAM STREET
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/7197197903.pdf

Additional Detail(s) (Map)

Well Completed Date:	2012/07/26
Year Completed:	2012
Depth (m):	5.7
Latitude:	45.4064137309359
Longitude:	-75.7091587734588
Path:	719\7197903.pdf

Bore Hole Information

Bore Hole ID:	1004259114	Elevation:	67.839889
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444504.00
Code OB Desc:		North83:	5028344.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	26-Jul-2012 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004776454			
Layer:		4			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		1.2999999523162842			
Formation End Depth:		5.699999809265137			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004776452			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		01			
Mat3 Desc:		FILL			
Formation Top Depth:		0.017000000923871994			
Formation End Depth:		0.8500000238418579			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004776453			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:		68			
Mat3 Desc:		DRY			
Formation Top Depth:		0.8500000238418579			
Formation End Depth:		1.2999999523162842			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004776451			
Layer:		1			
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.017000000923871994			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004776462			
Layer:		1			
Plug From:		0			
Plug To:		2.44000005722046			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004776461			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004776450			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004776458			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		2.67000007629395			
Casing Diameter:		3.5			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004776459			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.67000007629395			
Screen End Depth:		5.71999979019165			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.19999980926514			
<u>Water Details</u>					
Water ID:		1004776457			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:		3.0999999046325684			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:	1004776455				
Diameter:	20.0				
Depth From:	0.0				
Depth To:	1.399999976158142				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
<u>Hole Diameter</u>					
Hole ID:	1004776456				
Diameter:	7.619999885559082				
Depth From:	1.399999976158142				
Depth To:	5.71999979019165				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
<u>12</u>	1 of 1	ESE/42.1	70.2 / -0.38	811 Gladstone Ave Ottawa ON K1R6Y1	EHS
Order No:	20170720056		Nearest Intersection:		
Status:	C		Municipality:		
Report Type:	Standard Report		Client Prov/State: ON		
Report Date:	27-JUL-17		Search Radius (km): .25		
Date Received:	20-JUL-17		X: -75.70925		
Previous Site Name:			Y: 45.405831		
Lot/Building Size:					
Additional Info Ordered:					
<u>13</u>	1 of 3	ENE/46.5	71.9 / 1.36	Princiotta Tower Incorporated 386-394 Booth Street and 9 Balsam St Ottawa ON	CA
Certificate #:	4900-7VCK9L				
Application Year:	2009				
Issue Date:	8/31/2009				
Approval Type:	Municipal and Private Sewage Works				
Status:	Approved				
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
<u>13</u>	2 of 3	ENE/46.5	71.9 / 1.36	Princiotta Towers Inc. 388 Booth St. Ottawa ON	GEN
Generator No:	ON4539951		Status:		
SIC Code:	531310		Co Admin:		
SIC Description:			Choice of Contact:		
Approval Years:	2011		Phone No Admin:		
PO Box No:			Contam. Facility:		
Country:			MHSW Facility:		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
13	3 of 3	ENE/46.5	71.9 / 1.36	Princiotta Tower Incorporated 386-394 Booth Street and 9 Balsam St Ottawa ON K4P 1M5	ECA
<p>Approval No: 4900-7VCK9L MOE District: Ottawa</p> <p>Approval Date: 2009-08-31 City:</p> <p>Status: Approved Longitude: -75.70898</p> <p>Record Type: ECA Latitude: 45.40665</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Business Name: Princiotta Tower Incorporated</p> <p>Address: 386-394 Booth Street and 9 Balsam St</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5726-7U8R9S-14.pdf</p> <p>PDF Site Location:</p>					
14	1 of 2	WNW/59.3	69.7 / -0.85	Enbridge Gas Distribution Inc. 228 Rochester St. Ottawa ON	SPL
<p>Ref No: 4325-9X8JQN Discharger Report:</p> <p>Site No: NA Material Group:</p> <p>Incident Dt: 6/6/2015 Health/Env Conseq:</p> <p>Year: Client Type:</p> <p>Incident Cause: Leak/Break Sector Type:</p> <p>Incident Event: Agency Involved:</p> <p>Contaminant Code: 35 Nearest Watercourse:</p> <p>Contaminant Name: NATURAL GAS (METHANE) Site Address: 228 Rochester St.</p> <p>Contaminant Limit 1: Site District Office:</p> <p>Contam Limit Freq 1: Site Postal Code:</p> <p>Contaminant UN No 1: Site Region:</p> <p>Environment Impact: Site Municipality: Ottawa</p> <p>Nature of Impact: Air Site Lot:</p> <p>Receiving Medium: Site Conc:</p> <p>Receiving Env: Northing:</p> <p>MOE Response: N Easting:</p> <p>Dt MOE Arvl on Scn: Site Geo Ref Accu:</p> <p>MOE Reported Dt: 6/6/2015 Site Map Datum:</p> <p>Dt Document Closed: SAC Action Class: TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill</p> <p>Incident Reason: Operator/Human Error Source Type:</p> <p>Site Name: 228 Rochester St.<UNOFFICIAL></p> <p>Site County/District:</p> <p>Site Geo Ref Meth:</p> <p>Incident Summary: TSSA FSB: 1/2" plastic linestrike</p> <p>Contaminant Qty: 0 other - see incident description</p>					
14	2 of 2	WNW/59.3	69.7 / -0.85	IN-DEPTH CONSTRUCTION 228 ROCHESTER ST., OTTAWA, ON, K1R 7M8, CA ON	PINC
<p>Incident ID:</p> <p>Incident No: 1657920 Pipe Material:</p> <p>Incident Reported Dt: 6/8/2015 Fuel Category: Natural Gas</p> <p>Type: FS-Pipeline Incident Health Impact:</p> <p>Status Code: Environment Impact:</p> <p>Tank Status: Pipeline Damage Reason Est Property Damage: Yes</p> <p>Task No: 5591634 Service Interrupt:</p> <p>Enforce Policy: Yes</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Spills Action Centre: Fuel Type: Fuel Occurrence Tp: Date of Occurrence: Occurrence Start Dt: 2015/11/09 Depth: Customer Acct Name: Incident Address: 228 ROCHESTER ST,,OTTAWA,ON,K1R 7M8,CA Operation Type: Pipeline Type: Regulator Type: Summary: 228 ROCHESTER ST, OTTAWA - PIPELINE HIT - 1/2" Reported By: Paul Vanderploeg - enbridge Affiliation: Occurrence Desc: Damage Reason: Excavation practices not sufficient Notes:				Public Relation: Pipeline System: PSIG: Attribute Category: FS-Perform P-line Inc Invest Regulator Location: Method Details: E-mail	

15	1 of 1	ENE/60.7	71.9 / 1.36	Princiotta Tower Incorporated Lot 256 and Part of Lot 257, Registered Plan 16 Ottawa ON K4P 1M5	ECA
Approval No: 4375-6FUJGJ Approval Date: 2005-09-06 Status: Revoked and/or Replaced Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Princiotta Tower Incorporated Address: Lot 256 and Part of Lot 257, Registered Plan 16 Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/4542-6ENNY9-14.pdf PDF Site Location:				MOE District: Ottawa City: Longitude: -75.70898 Latitude: 45.40665 Geometry X: Geometry Y:	

16	1 of 1	ESE/60.8	70.8 / 0.22	ON	WWIS
Well ID: 7297428 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: C35557 Tag: A215212 Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Map):				Data Entry Status: Yes Data Src: Date Received: 10/16/2017 Selected Flag: True Abandonment Rec: Contractor: 1844 Form Version: 8 Owner: Street Name: County: OTTAWA Municipality: OTTAWA CITY Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	

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

Well Completed Date: 2017/08/28
Year Completed: 2017
Depth (m):
Latitude: 45.4058936000696
Longitude: -75.7088455823708
Path:

Bore Hole Information

Bore Hole ID:	1006766286	Elevation:	67.164443
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444528.00
Code OB Desc:		North83:	5028286.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	28-Aug-2017 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

17	1 of 2	SSE/60.9	69.9 / -0.69	Ottawa Community Housing Corporation 811 Gladstone Ave Ottawa ON K2E 7Y8	ECA
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Approval No:	7605-BF3HJ5	MOE District:	
Approval Date:	2019-08-30	City:	
Status:	Approved	Longitude:	
Record Type:	ECA	Latitude:	
Link Source:	IDS	Geometry X:	
SWP Area Name:		Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	Ottawa Community Housing Corporation		
Address:	811 Gladstone Ave		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/6043-BCPPB4-13.pdf		
PDF Site Location:			

17	2 of 2	SSE/60.9	69.9 / -0.69	GORDON BARR LIMITED 811 Gladstone AVE Ottawa ON K2P 0R4	EASR
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Approval No:	R-009-6112252695	SWP Area Name:	Rideau Valley
Status:	REGISTERED	MOE District:	Ottawa
Date:	2020-04-29	Municipality:	Ottawa
Record Type:	EASR	Latitude:	45.40583333
Link Source:	MOFA	Longitude:	-75.70944444
Project Type:	Water Taking - Construction Dewatering	Geometry X:	
Full Address:		Geometry Y:	
Approval Type:	EASR-Water Taking - Construction Dewatering		
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2242270		
PDF URL:			
PDF Site Location:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
18	1 of 1	WNW/80.6	68.9 / -1.69	26 BALSAM Ottawa ON	WWIS
Well ID:		7204405		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Monitoring and Test Hole		Date Received: 7/10/2013	
Sec. Water Use:				Selected Flag: True	
Final Well Status:		Test Hole		Abandonment Rec:	
Water Type:				Contractor: 7241	
Casing Material:				Form Version: 7	
Audit No:		Z168664		Owner:	
Tag:		A098723		Street Name: 26 BALSAM	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: NEPEAN TOWNSHIP	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204405.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2013/06/04			
Year Completed:		2013			
Depth (m):		15.24			
Latitude:		45.4067523604503			
Longitude:		-75.7111564788136			
Path:		720\7204405.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		1004403119		Elevation: 65.374786	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:				East83: 444348.00	
Code OB Desc:				North83: 5028383.00	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 4	
Date Completed:		04-Jun-2013 00:00:00		UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1004821845			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		1.2200000286102295			
Formation End Depth:		15.239999771118164			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004821843			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:		85			
Mat2 Desc:		SOFT			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.3100000023841858			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004821844			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		05			
Most Common Material:		CLAY			
Mat2:		12			
Mat2 Desc:		STONES			
Mat3:		85			
Mat3 Desc:		SOFT			
Formation Top Depth:		0.3100000023841858			
Formation End Depth:		1.2200000286102295			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004821856			
Layer:		3			
Plug From:		12			
Plug To:		15.2399997711182			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004821855			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		12			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug ID:		1004821854			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1004821853			
Method Construction Code:		5			
Method Construction:		Air Percussion			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1004821842			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		1004821849			
Layer:		1			
Material:		5			
Open Hole or Material:		PLASTIC			
Depth From:		0			
Depth To:		12.1899995803833			
Casing Diameter:		4.03000020980835			
Casing Diameter UOM:		cm			
Casing Depth UOM:		m			
<u>Construction Record - Screen</u>					
Screen ID:		1004821850			
Layer:		1			
Slot:		10			
Screen Top Depth:		12.1899995803833			
Screen End Depth:		15.2399997711182			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82000017166138			
<u>Water Details</u>					
Water ID:		1004821848			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1004821847			
Diameter:		7.619999885559082			
Depth From:		1.5199999809265137			
Depth To:		15.239999771118164			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1004821846			
Diameter:		11.449999809265137			
Depth From:		0.0			
Depth To:		1.5199999809265137			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
19	1 of 2	SSE/82.7	69.6 / -1.00	OTTAWA CITY ROCHESTER ST./GLADSTONE AVE. OTTAWA CITY ON	CA
Certificate #:		3-0912-95-			
Application Year:		95			
Issue Date:		8/29/1995			
Approval Type:		Municipal sewage			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
19	2 of 2	SSE/82.7	69.6 / -1.00	R.M. OF OTTAWA-CARLETON ROCHESTER ST./GLADSTONE AVE/ELM OTTAWA CITY ON	CA
Certificate #:		7-0695-95-			
Application Year:		95			
Issue Date:		7/19/1995			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					
20	1 of 2	SSE/82.7	69.6 / -1.00	City of Ottawa Intersection Gladstone St & Rochester St Ottawa ON	SPL
Ref No:		6171-8BD62D		Discharger Report:	
Site No:				Material Group:	
Incident Dt:				Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:				Sector Type: Motor Vehicle	
Incident Event:				Agency Involved:	
Contaminant Code: 41				Nearest Watercourse:	
Contaminant Name: LIQUID WASTE (N.O.S.)				Site Address:	
Contaminant Limit 1:				Site District Office:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Confirmed Nature of Impact: Surface Water Pollution Receiving Medium: Receiving Env: MOE Response: No Field Response Dt MOE Arvl on Scn: MOE Reported Dt: 11/19/2010 Dt Document Closed: Incident Reason: Site Name: Spill Site<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: MVA - Motor Vehicle Fluids to CB - Ottawa Contaminant Qty: 10 L				Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Watercourse Spills Source Type:	
20	2 of 2	SSE/82.7	69.6 / -1.00	Gladstone Ave Rochester St Ottawa ON	EHS
Order No: 20170727126 Status: C Report Type: Standard Report Report Date: 03-AUG-17 Date Received: 27-JUL-17 Previous Site Name: Lot/Building Size: Additional Info Ordered:				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.709725 Y: 45.405291	
21	1 of 1	NNE/83.0	72.2 / 1.61	360 Booth Street Inc. 360 Booth Street Ottawa ON K2P 1K6	ECA
Approval No: 4076-BG4Q3F Approval Date: 2019-09-29 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: 360 Booth Street Inc. Address: 360 Booth Street Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1348-BAWLBU-13.pdf PDF Site Location:				MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:	
22	1 of 1	ESE/95.1	70.9 / 0.31	811 Gladstone Ave Ottawa ON K1R 6Y1	EHS
Order No: 20130214005 Status: C Report Type: Custom Report Report Date: 22-FEB-13 Date Received: 14-FEB-13 Previous Site Name: Lot/Building Size: 6.5 acres Additional Info Ordered: Fire Insur. Maps and/or Site Plans				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.708651 Y: 45.405563	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
23	1 of 1	S/97.2	68.8 / -1.82	ON	BORE
Borehole ID:	613134			Inclin FLG:	No
OGF ID:	215514438			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	FEB-1965			Municipality:	
Static Water Level:	6.2			Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.405133
Total Depth m:	-999			Longitude DD:	-75.709824
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	444451
Drill Method:				Northing:	5028202
Orig Ground Elev m:	64.3			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	65.3				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218393847			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.3			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Fill			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	fill
Gsc Material Description:					
Stratum Description:	FILL.				
Geology Stratum ID:	218393848			Mat Consistency:	Dense
Top Depth:	1.3			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:	Shale			Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK. GREY. ENSE. SILT. DENSE. UNSPECIFIED. DENSE. BEDROCK. . BEDROCK. BLACK.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 056420 NTS_Sheet: 31G05G				
Confiden 1:					
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Source Date:		1956-1972		Projection Name:	Universal Transverse Mercator
Scale or Resolution:		Varies			
Source Name:		Urban Geology Automated Information System (UGAIS)			
Source Originators:		Geological Survey of Canada			
24	1 of 1	N/114.9	72.8 / 2.25	MCCONOMY RACING ENTERPRISES LTD. 23-4 POPLAR STREET OTTAWA ON K1R 6V1	GEN
Generator No:		ON1764000		Status:	
SIC Code:		6359		Co Admin:	
SIC Description:		OTHER VEH. REPAIR		Choice of Contact:	
Approval Years:		93,94,95,96,97,98		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
Detail(s)					
Waste Class:		213			
Waste Class Desc:		PETROLEUM DISTILLATES			
25	1 of 1	ESE/118.3	70.9 / 0.31	470 Booth Street Ottawa ON K1R 7N3	EHS
Order No:		20190328163		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		RSC Report (Urban)		Client Prov/State: ON	
Report Date:		04-APR-19		Search Radius (km): .3	
Date Received:		28-MAR-19		X: -75.708482	
Previous Site Name:				Y: 45.405387	
Lot/Building Size:		0.38 Acres			
Additional Info Ordered:		City Directory; Aerial Photos			
26	1 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Preston Street (Albert Street to Carling Avenue) Ottawa ON K1P 1J1	ECA
Approval No:		0959-7EGRT6		MOE District: Ottawa	
Approval Date:		2008-05-15		City:	
Status:		Approved		Longitude: -75.7108	
Record Type:		ECA		Latitude: 45.405	
Link Source:		IDS		Geometry X:	
SWP Area Name:		Rideau Valley		Geometry Y:	
Approval Type:		ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS			
Project Type:		MUNICIPAL AND PRIVATE SEWAGE WORKS			
Business Name:		City of Ottawa			
Address:		Preston Street (Albert Street to Carling Avenue)			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/2043-79SM4X-14.pdf			
PDF Site Location:					
26	2 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Preston Street Ottawa ON K1P 1J1	ECA
Approval No:		0057-7EKK59		MOE District: Ottawa	
Approval Date:		2008-05-22		City:	
Status:		Approved		Longitude: -75.7108	
Record Type:		ECA		Latitude: 45.405	
Link Source:		IDS		Geometry X:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Business Name: City of Ottawa</p> <p>Address: Preston Street</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/7920-79SMBZ-14.pdf</p> <p>PDF Site Location:</p>					
26	3 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	ECA
<p>Approval No: 2322-5SKQQ3 MOE District: Ottawa</p> <p>Approval Date: 2003-10-24 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Business Name: City of Ottawa</p> <p>Address: Spruce Street from Champagne to Booth St.</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2049-5SHMH4-14.pdf</p> <p>PDF Site Location:</p>					
26	4 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Spruce Street from Champagne to Booth St. Ottawa ON K1S 5K2	ECA
<p>Approval No: 1611-5SLKPJ MOE District: Ottawa</p> <p>Approval Date: 2003-10-24 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-Municipal Drinking Water Systems</p> <p>Project Type: Municipal Drinking Water Systems</p> <p>Business Name: City of Ottawa</p> <p>Address: Spruce Street from Champagne to Booth St.</p> <p>Full Address:</p> <p>Full PDF Link:</p> <p>PDF Site Location:</p>					
26	5 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	ECA
<p>Approval No: 4003-5QTN78 MOE District: Ottawa</p> <p>Approval Date: 2003-09-11 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Business Name: City of Ottawa</p> <p>Address: Anderson Street, Eccles Street, and Poplar Street</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/1569-5QDN8F-14.pdf PDF Site Location:					
26	6 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Anderson Street, Eccles Street, and Poplar Street Ottawa ON K1S 5K2	ECA
Approval No: 4703-5QEKUL Approval Date: 2003-08-25 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-Municipal Drinking Water Systems Project Type: Municipal Drinking Water Systems Business Name: City of Ottawa Address: Anderson Street, Eccles Street, and Poplar Street Full Address: Full PDF Link: PDF Site Location:					
26	7 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Oak Street & Pamilla Street Ottawa ON K2G 6J8	ECA
Approval No: 6012-5ZLL4S Approval Date: 2004-06-04 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-Municipal Drinking Water Systems Project Type: Municipal Drinking Water Systems Business Name: City of Ottawa Address: Oak Street & Pamilla Street Full Address: Full PDF Link: PDF Site Location:					
26	8 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Larch Street and Laurel Street Ottawa ON K2P 1J1	ECA
Approval No: 6964-74EH38 Approval Date: 2007-06-25 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-Municipal Drinking Water Systems Project Type: Municipal Drinking Water Systems Business Name: City of Ottawa Address: Larch Street and Laurel Street Full Address: Full PDF Link: PDF Site Location:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
26	9 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Somerset Street between West of Preston Street to Preston Ottawa ON K1P 1J1	ECA
<p>Approval No: 8215-89TKG8 MOE District: Ottawa</p> <p>Approval Date: 2010-10-08 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS</p> <p>Business Name: City of Ottawa</p> <p>Address: Somerset Street between West of Preston Street to Preston</p> <p>Full Address:</p> <p>Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5460-87SLK3-14.pdf</p> <p>PDF Site Location:</p>					
26	10 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Booth (from Somerset Street to Primrose) Ottawa ON K2G 6J8	ECA
<p>Approval No: 3128-6ERKV7 MOE District: Ottawa</p> <p>Approval Date: 2005-08-02 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-Municipal Drinking Water Systems</p> <p>Project Type: Municipal Drinking Water Systems</p> <p>Business Name: City of Ottawa</p> <p>Address: Booth (from Somerset Street to Primrose)</p> <p>Full Address:</p> <p>Full PDF Link:</p> <p>PDF Site Location:</p>					
26	11 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Preston Street , Young Street, Sidney Street & Norfolk Avenue Ottawa ON K1P 1J1	ECA
<p>Approval No: 1508-7BBP7X MOE District: Ottawa</p> <p>Approval Date: 2008-01-29 City:</p> <p>Status: Approved Longitude: -75.7108</p> <p>Record Type: ECA Latitude: 45.405</p> <p>Link Source: IDS Geometry X:</p> <p>SWP Area Name: Rideau Valley Geometry Y:</p> <p>Approval Type: ECA-Municipal Drinking Water Systems</p> <p>Project Type: Municipal Drinking Water Systems</p> <p>Business Name: City of Ottawa</p> <p>Address: Preston Street , Young Street, Sidney Street & Norfolk Avenue</p> <p>Full Address:</p> <p>Full PDF Link:</p> <p>PDF Site Location:</p>					
26	12 of 14	SW/121.7	68.3 / -2.27	City of Ottawa Adeline Street - CP Railway to Rochester Street Ottawa ON K1V 6A6	ECA
<p>Approval No: 7553-5ATL6P MOE District: Ottawa</p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Date:	2002-06-07			City:	
Status:	Approved			Longitude:	-75.7108
Record Type:	ECA			Latitude:	45.405
Link Source:	IDS			Geometry X:	
SWP Area Name:	Rideau Valley			Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Business Name:	City of Ottawa				
Address:	Adeline Street - CP Railway to Rochester Street				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/7465-5A7N5Y-14.pdf				
PDF Site Location:					

[26](#) 13 of 14 **SW/121.7** **68.3 / -2.27** **City of Ottawa
Booth (from Somerset Street to Primrose)
Ottawa ON K2G 6J8** **ECA**

Approval No:	0607-6ERL5D	MOE District:	Ottawa
Approval Date:	2005-08-02	City:	
Status:	Approved	Longitude:	-75.7108
Record Type:	ECA	Latitude:	45.405
Link Source:	IDS	Geometry X:	
SWP Area Name:	Rideau Valley	Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS		
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS		
Business Name:	City of Ottawa		
Address:	Booth (from Somerset Street to Primrose)		
Full Address:			
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/9843-6EQK7C-14.pdf		
PDF Site Location:			

[26](#) 14 of 14 **SW/121.7** **68.3 / -2.27** **City of Ottawa
Adeline Street - CP Railway to Rochester Street
Ottawa ON K1V 6A6** **ECA**

Approval No:	4648-5ATKNZ	MOE District:	Ottawa
Approval Date:	2002-06-07	City:	
Status:	Approved	Longitude:	-75.7108
Record Type:	ECA	Latitude:	45.405
Link Source:	IDS	Geometry X:	
SWP Area Name:	Rideau Valley	Geometry Y:	
Approval Type:	ECA-Municipal and Private Water Works		
Project Type:	Municipal and Private Water Works		
Business Name:	City of Ottawa		
Address:	Adeline Street - CP Railway to Rochester Street		
Full Address:			
Full PDF Link:			
PDF Site Location:			

[27](#) 1 of 1 **NW/131.1** **70.0 / -0.61** **The Original Maple Bat Company
202 Rochester St
Ottawa ON K1R 7M6** **SCT**

Established:	1996
Plant Size (ft²):	
Employment:	15

--Details--	
Description:	Sporting and Athletic Goods Manufacturing
SIC/NAICS Code:	339920

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
28	1 of 1	NW/131.2	70.0 / -0.61	The Original Maple Bat Company 202 Ronchester St Ottawa ON K1R 7M6	SCT
Established:		1996			
Plant Size (ft²):		15			
Employment:					
--Details--					
Description:		Sporting and Athletic Goods Manufacturing			
SIC/NAICS Code:		339920			

29	1 of 1	NNE/133.4	73.6 / 3.05	357 BOOTH ST. Ottawa ON	WWIS
Well ID:	7169258		Data Entry Status:		
Construction Date:			Data Src:		
Primary Water Use:	Monitoring and Test Hole		Date Received: 9/28/2011		
Sec. Water Use:	0		Selected Flag: True		
Final Well Status:	Observation Wells		Abandonment Rec:		
Water Type:			Contractor: 7323		
Casing Material:			Form Version: 7		
Audit No:	Z132520		Owner:		
Tag:	A080581		Street Name: 357 BOOTH ST.		
Construction Method:			County: OTTAWA		
Elevation (m):			Municipality: OTTAWA CITY		
Elevation Reliability:			Site Info:		
Depth to Bedrock:			Lot:		
Well Depth:			Concession:		
Overburden/Bedrock:			Concession Name:		
Pump Rate:			Easting NAD83:		
Static Water Level:			Northing NAD83:		
Flowing (Y/N):			Zone:		
Flow Rate:			UTM Reliability:		
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/716\7169258.pdf

Additional Detail(s) (Map)

Well Completed Date:
Year Completed:
Depth (m): 10.668
Latitude: 45.4076811480373
Longitude: -75.7094429891394
Path: 716\7169258.pdf

Bore Hole Information

Bore Hole ID:	1003571392	Elevation:	67.693351
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444483.00
Code OB Desc:		North83:	5028485.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:		UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	gcode
Elevrc Desc:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Location Source Date:</i>					
<i>Improvement Location Source:</i>					
<i>Improvement Location Method:</i>					
<i>Source Revision Comment:</i>					
<i>Supplier Comment:</i>					
<u><i>Overburden and Bedrock</i></u>					
<u><i>Materials Interval</i></u>					
<i>Formation ID:</i>		1003998019			
<i>Layer:</i>		2			
<i>Color:</i>		2			
<i>General Color:</i>		GREY			
<i>Mat1:</i>		15			
<i>Most Common Material:</i>		LIMESTONE			
<i>Mat2:</i>		05			
<i>Mat2 Desc:</i>		CLAY			
<i>Mat3:</i>		74			
<i>Mat3 Desc:</i>		LAYERED			
<i>Formation Top Depth:</i>		2.0			
<i>Formation End Depth:</i>		35.0			
<i>Formation End Depth UOM:</i>		ft			
<u><i>Overburden and Bedrock</i></u>					
<u><i>Materials Interval</i></u>					
<i>Formation ID:</i>		1003998018			
<i>Layer:</i>		1			
<i>Color:</i>		6			
<i>General Color:</i>		BROWN			
<i>Mat1:</i>		05			
<i>Most Common Material:</i>		CLAY			
<i>Mat2:</i>		11			
<i>Mat2 Desc:</i>		GRAVEL			
<i>Mat3:</i>		79			
<i>Mat3 Desc:</i>		PACKED			
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		2.0			
<i>Formation End Depth UOM:</i>		ft			
<u><i>Annular Space/Abandonment</i></u>					
<u><i>Sealing Record</i></u>					
<i>Plug ID:</i>		1003998028			
<i>Layer:</i>		1			
<i>Plug From:</i>		0			
<i>Plug To:</i>		1			
<i>Plug Depth UOM:</i>		ft			
<u><i>Annular Space/Abandonment</i></u>					
<u><i>Sealing Record</i></u>					
<i>Plug ID:</i>		1003998030			
<i>Layer:</i>		3			
<i>Plug From:</i>		20			
<i>Plug To:</i>		35			
<i>Plug Depth UOM:</i>		ft			
<u><i>Annular Space/Abandonment</i></u>					
<u><i>Sealing Record</i></u>					
<i>Plug ID:</i>		1003998029			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:	2				
Plug From:	1				
Plug To:	20				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1003998027				
Method Construction Code:	6				
Method Construction:	Boring				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1003998017				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:	1003998023				
Layer:	1				
Material:	5				
Open Hole or Material:	PLASTIC				
Depth From:	0				
Depth To:	25				
Casing Diameter:	2				
Casing Diameter UOM:	inch				
Casing Depth UOM:	ft				
<u>Construction Record - Screen</u>					
Screen ID:	1003998024				
Layer:	1				
Slot:	.10				
Screen Top Depth:	25				
Screen End Depth:	35				
Screen Material:	5				
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:	2.25				
<u>Water Details</u>					
Water ID:	1003998022				
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:	ft				
<u>Hole Diameter</u>					
Hole ID:	1003998021				
Diameter:	8.0				
Depth From:	0.0				
Depth To:	2.0				
Hole Depth UOM:	ft				
Hole Diameter UOM:	inch				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1003998020			
Diameter:		4.0			
Depth From:		2.0			
Depth To:		35.0			
Hole Depth UOM:		ft			
Hole Diameter UOM:		inch			

30	1 of 17	SSW/136.2	69.0 / -1.57	OTTAWA BOARD OF EDUCATION HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	8511			Co Admin:	
SIC Description:	ELEMT./SECON. EDUC.			Choice of Contact:	
Approval Years:	86,87,88,89,90			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Detail(s)

Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

30	2 of 17	SSW/136.2	69.0 / -1.57	OTTAWA BOARD OF EDUCATION HIGH SCHOOL OF COMMERCE 300 ROCHESTER STREET OTTAWA ON K1R 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	8511			Co Admin:	
SIC Description:	ELEMT./SECON. EDUC.			Choice of Contact:	
Approval Years:	92,93,97			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Detail(s)

Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

30	3 of 17	SSW/136.2	69.0 / -1.57	OTTAWA BOARD OF EDUCATION 29-129 HIGH SCHOOL OF COMMERCE,300 ROCHESTERST C/O 330 GILMOUR ST. OTTAWA ON K1R 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	8511			Co Admin:	
SIC Description:	ELEMT./SECON. EDUC.			Choice of Contact:	
Approval Years:	94,95,96			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
30	4 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:		ON0375211		Status:	
SIC Code:		8511		Co Admin:	
SIC Description:		ELEM./SECON. EDUC.		Choice of Contact:	
Approval Years:		98,99,00,01,02,03,04,05,06,07,08		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
30	5 of 17	SSW/136.2	69.0 / -1.57	Ottawa-Carleton District School Board Adult Continuing Education Centre 300 Rochester St. Ottawa ON K1R 7N4	GEN
Generator No:		ON7850245		Status:	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		02,03,04		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		243			
Waste Class Desc:		PCB'S			
30	6 of 17	SSW/136.2	69.0 / -1.57	300 Rochester Street Ottawa ON K1R 7N4	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Order No:	20050506007			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:				Client Prov/State:	ON
Report Date:	5/17/2005			Search Radius (km):	0.35
Date Received:	5/6/2005			X:	-75.710217
Previous Site Name:				Y:	45.404356
Lot/Building Size:					
Additional Info Ordered:	Title Search				

30	7 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	611110			Co Admin:	
SIC Description:	Elementary and Secondary Schools			Choice of Contact:	
Approval Years:	2009			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Detail(s)

Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES

30	8 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1R 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	611110			Co Admin:	
SIC Description:	Elementary and Secondary Schools			Choice of Contact:	
Approval Years:	2010			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Detail(s)

Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			

[30](#) 9 of 17 SSW/136.2 69.0 / -1.57 OTTAWA-CARLETON DISTRICT SCHOOL BOARD
ADULT HIGH SCHOOL 300 ROCHESTER STREET
OTTAWA ON K1R 7N4 GEN

Generator No:	ON0375211	Status:
SIC Code:	611110	Co Admin:
SIC Description:	Elementary and Secondary Schools	Choice of Contact:
Approval Years:	2011	Phone No Admin:
PO Box No:		Contam. Facility:
Country:		MHSW Facility:

Detail(s)

Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS

[30](#) 10 of 17 SSW/136.2 69.0 / -1.57 OTTAWA-CARLETON DISTRICT SCHOOL BOARD
ADULT HIGH SCHOOL 300 ROCHESTER STREET
OTTAWA ON K1R 7N4 GEN

Generator No:	ON0375211	Status:
SIC Code:	611110	Co Admin:
SIC Description:	Elementary and Secondary Schools	Choice of Contact:
Approval Years:	2012	Phone No Admin:
PO Box No:		Contam. Facility:
Country:		MHSW Facility:

Detail(s)

Waste Class:	145
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			

30	11 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON	GEN
Generator No:	ON0375211	Status:			
SIC Code:	611110	Co Admin:			
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS	Choice of Contact:			
Approval Years:	2013	Phone No Admin:			
PO Box No:		Contam. Facility:			
Country:		MHSW Facility:			

Detail(s)

Waste Class:		212			
Waste Class Desc:		ALIPHATIC SOLVENTS			
Waste Class:		267			
Waste Class Desc:		ORGANIC ACIDS			
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		122			
Waste Class Desc:		ALKALINE WASTES - OTHER METALS			
Waste Class:		263			
Waste Class Desc:		ORGANIC LABORATORY CHEMICALS			
Waste Class:		112			
Waste Class Desc:		ACID WASTE - HEAVY METALS			
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			

30	12 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER	GEN
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
				STREET OTTAWA ON K1P 7N4	
Generator No:	ON0375211			Status:	
SIC Code:	611110			Co Admin:	Greg Benson
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2016			Phone No Admin:	613-596-8211 Ext.8549
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No

Detail(s)

Waste Class:	331
Waste Class Desc:	WASTE COMPRESSED GASES
Waste Class:	122
Waste Class Desc:	ALKALINE WASTES - OTHER METALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	145
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES
Waste Class:	221
Waste Class Desc:	LIGHT FUELS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS
Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	148
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS
Waste Class:	112
Waste Class Desc:	ACID WASTE - HEAVY METALS

30	13 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:	ON0375211			Status:	
SIC Code:	611110			Co Admin:	Greg Benson
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2015			Phone No Admin:	613-596-8211 Ext.8549
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No

Detail(s)

Waste Class:	263
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS
Waste Class:	212
Waste Class Desc:	ALIPHATIC SOLVENTS
Waste Class:	267
Waste Class Desc:	ORGANIC ACIDS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Waste Class:		148			
Waste Class Desc:		INORGANIC LABORATORY CHEMICALS			
Waste Class:		112			
Waste Class Desc:		ACID WASTE - HEAVY METALS			
Waste Class:		122			
Waste Class Desc:		ALKALINE WASTES - OTHER METALS			
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			
Waste Class:		331			
Waste Class Desc:		WASTE COMPRESSED GASES			
Waste Class:		221			
Waste Class Desc:		LIGHT FUELS			

30	14 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:	ON0375211	Status:			
SIC Code:	611110	Co Admin:	Greg Benson		
SIC Description:	ELEMENTARY AND SECONDARY SCHOOLS	Choice of Contact:	CO_OFFICIAL		
Approval Years:	2014	Phone No Admin:	613-596-8211 Ext.8549		
PO Box No:		Contam. Facility:	No		
Country:	Canada	MHSW Facility:	No		

Detail(s)

Waste Class:	148				
Waste Class Desc:	INORGANIC LABORATORY CHEMICALS				
Waste Class:	221				
Waste Class Desc:	LIGHT FUELS				
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
Waste Class:	112				
Waste Class Desc:	ACID WASTE - HEAVY METALS				
Waste Class:	263				
Waste Class Desc:	ORGANIC LABORATORY CHEMICALS				
Waste Class:	212				
Waste Class Desc:	ALIPHATIC SOLVENTS				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				
Waste Class:	122				
Waste Class Desc:	ALKALINE WASTES - OTHER METALS				
Waste Class:	267				
Waste Class Desc:	ORGANIC ACIDS				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
30	15 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:	ON0375211			Status: Registered	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Dec 2018			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		148 A			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 B			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 R			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		212 B			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		263 B			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		267 C			
Waste Class Desc:		Organic acids			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			

30	16 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:	ON0375211			Status: Registered	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
SIC Code: SIC Description: Approval Years: As of Jul 2020 PO Box No: Country: Canada				Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		148 B			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 A			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		267 C			
Waste Class Desc:		Organic acids			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		212 B			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 R			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		263 B			
Waste Class Desc:		Misc. waste organic chemicals			
<u>30</u>	17 of 17	SSW/136.2	69.0 / -1.57	OTTAWA-CARLETON DISTRICT SCHOOL BOARD Health and Safety ADULT HIGH SCHOOL 300 ROCHESTER STREET OTTAWA ON K1P 7N4	GEN
Generator No:		ON0375211		Status: Registered	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		As of Nov 2021		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:		Canada		MHSW Facility:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Detail(s)</u>					
Waste Class:		145 I			
Waste Class Desc:		Wastes from the use of pigments, coatings and paints			
Waste Class:		212 B			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		267 C			
Waste Class Desc:		Organic acids			
Waste Class:		148 C			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		122 C			
Waste Class Desc:		Alkaline slutions - containing other metals and non-metals (not cyanide)			
Waste Class:		112 C			
Waste Class Desc:		Acid solutions - containing heavy metals			
Waste Class:		331 I			
Waste Class Desc:		Waste compressed gases including cylinders			
Waste Class:		263 B			
Waste Class Desc:		Misc. waste organic chemicals			
Waste Class:		148 B			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 I			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		212 L			
Waste Class Desc:		Aliphatic solvents and residues			
Waste Class:		148 R			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		148 A			
Waste Class Desc:		Misc. wastes and inorganic chemicals			
Waste Class:		263 I			
Waste Class Desc:		Misc. waste organic chemicals			

31	1 of 5	NNE/139.5	73.8 / 3.24	HARVEY SIGNS LIMITED 351 BOOTH STREET OTTAWA ON K1R 7K1	GEN
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Generator No:	ON0995800	Status:	
SIC Code:	3971	Co Admin:	
SIC Description:	SIGN & DISPLAY IND.	Choice of Contact:	
Approval Years:	88,89,90	Phone No Admin:	
PO Box No:		Contam. Facility:	
Country:		MHSW Facility:	

Detail(s)

Waste Class:	213
Waste Class Desc:	PETROLEUM DISTILLATES

31	2 of 5	NNE/139.5	73.8 / 3.24	HARVEY SIGNS LIMITED 351 BOOTH STREET OTTAWA ON K1R 7K1	GEN
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Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator No: ON0995800 Status: SIC Code: 3971 Co Admin: SIC Description: SIGN & DISPLAY IND. Choice of Contact: Approval Years: 92,93,97,98,99,00,01 Phone No Admin: PO Box No: Contam. Facility: Country: MHSW Facility:					
Detail(s)					
Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES					
31	3 of 5	NNE/139.5	73.8 / 3.24	HARVEY SIGNS LIMITED 19-298 351 BOOTH STREET OTTAWA ON K1R 7K1	GEN
Generator No: ON0995800 Status: SIC Code: 3971 Co Admin: SIC Description: SIGN & DISPLAY IND. Choice of Contact: Approval Years: 94,95,96 Phone No Admin: PO Box No: Contam. Facility: Country: MHSW Facility:					
Detail(s)					
Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES					
31	4 of 5	NNE/139.5	73.8 / 3.24	CHADO'S PERFORMANCE & PAR 355 BOOTH ST OTTAWA ON K1R 7K1	AUWR
Headcode: 96400 Headcode Desc: Automobile Parts & Supplies-Used & Rebuilt Phone: 6135692400 List Name: Description: Tire, Battery, Parts and Accessories					
31	5 of 5	NNE/139.5	73.8 / 3.24	345 TO 357 BOOTH ST OTTAWA ON	EHS
Order No: 20090821004 Nearest Intersection: Status: C Municipality: Report Type: Standard Report Client Prov/State: ON Report Date: 8/31/2009 Search Radius (km): 0.25 Date Received: 8/21/2009 X: -75.709151 Previous Site Name: Y: 45.407685 Lot/Building Size: Additional Info Ordered:					
32	1 of 1	NNE/143.8	73.8 / 3.24	ON	WWIS
Well ID: 7199618 Data Entry Status: Yes Construction Date: Data Src: Primary Water Use: Date Received: 4/2/2013 Sec. Water Use: Selected Flag: True Final Well Status: Abandonment Rec:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Water Type: Casing Material: Audit No: C20637 Tag: Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Contractor: 1844 Form Version: 8 Owner: Street Name: County: OTTAWA Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):					
Additional Detail(s) (Map)					
Well Completed Date:		2012/08/10			
Year Completed:		2012			
Depth (m):					
Latitude:		45.4077103715347			
Longitude:		-75.7090855469779			
Path:					
Bore Hole Information					
Bore Hole ID:		1004269806		Elevation: 68.093383	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:				East83: 444511.00	
Code OB Desc:				North83: 5028488.00	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 4	
Date Completed:		10-Aug-2012 00:00:00		UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
33	1 of 5	WSW/148.1	67.8 / -2.74	Ottawa Community Housing 865 Gladstone Ottawa ON K1R 7T4	GEN
Generator No:		ON3858285		Status:	
SIC Code:		561799		Co Admin: Joanie Mitchell	
SIC Description:		ALL OTHER SERVICES TO BUILDINGS AND DWELLINGS		Choice of Contact: CO_ADMIN	
Approval Years:		2016		Phone No Admin: 613-731-7223 Ext.2304	
PO Box No:				Contam. Facility: No	
Country:		Canada		MHSW Facility: No	
Detail(s)					
Waste Class:		145			
Waste Class Desc:		PAINT/PIGMENT/COATING RESIDUES			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
33	2 of 5	WSW/148.1	67.8 / -2.74	Ottawa Community Housing 865 Gladstone Ottawa ON K1R 7T4	GEN
Generator No:	ON3858285			Status:	
SIC Code:	561799			Co Admin:	Joanie Jeanne d'Arc Mitchell
SIC Description:	ALL OTHER SERVICES TO BUILDINGS AND DWELLINGS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2015			Phone No Admin:	613-731-7223 Ext.2304
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No
<u>Detail(s)</u>					
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
33	3 of 5	WSW/148.1	67.8 / -2.74	Central Tenant Services 865 Gladstone Ottawa ON K1R 7T4	GEN
Generator No:	ON3858285			Status:	
SIC Code:	561799			Co Admin:	
SIC Description:	ALL OTHER SERVICES TO BUILDINGS AND DWELLINGS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2014			Phone No Admin:	
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No
<u>Detail(s)</u>					
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
33	4 of 5	WSW/148.1	67.8 / -2.74	Ottawa Community Housing 865 Gladstone Ottawa ON K1R 7T4	GEN
Generator No:	ON3858285			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Dec 2018			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	145 L				
Waste Class Desc:	Wastes from the use of pigments, coatings and paints				
33	5 of 5	WSW/148.1	67.8 / -2.74	Ottawa Community Housing 865 Gladstone Ottawa ON K1R 7T4	GEN
Generator No:	ON3858285			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Oct 2019			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:	Canada			MHSW Facility:	

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

Waste Class: 145 L
Waste Class Desc: Wastes from the use of pigments, coatings and paints

34	1 of 1	NE/148.7	73.8 / 3.27	Enbridge Gas Distribution Inc. 43 Willow Street Ottawa ON	SPL
Ref No:	1224-AD4VSR			Discharger Report:	
Site No:	NA			Material Group:	
Incident Dt:	8/23/2016			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:				Sector Type:	Unknown / N/A
Incident Event:	Leak/Break			Agency Involved:	
Contaminant Code:	35			Nearest Watercourse:	
Contaminant Name:	NATURAL GAS (METHANE)			Site Address:	43 Willow Street
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Air			Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	8/23/2016			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	TSSA - Fuel Safety Branch - Hydrocarbon Fuel Release/Spill
Incident Reason:	Operator/Human Error			Source Type:	
Site Name:	Residence<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	TSSA FSB: 2 inch pl service IP dmg; made safe				
Contaminant Qty:	0 other - see incident description				

35	1 of 2	NNE/149.3	73.8 / 3.24	345 Booth Street Ltd 345 - 357 BOOTH STREET, OTTAWA, ONTARIO K1R 7K1 Ottawa ON	RSC
RSC ID:	207589			Cert Date:	
RA No:				Cert Prop Use No:	
RSC Type:	Phase 1 and 2 RSC			Intended Prop Use:	Residential
Curr Property Use:	Commercial			Qual Person Name:	Troy Austrins
Ministry District:	Ottawa District Office			Stratified (Y/N):	
Filing Date:	2013/04/16			Audit (Y/N):	
Date Ack:				Entire Leg Prop. (Y/N):	
Date Returned:				Accuracy Estimate:	
Restoration Type:				Telephone:	
Soil Type:				Fax:	
Criteria:				Email:	
CPU Issued Sect 1686:					
Asmt Roll No:	0614063201504000000, 0614063201509000000, 0614063201508000000, 0614063201507000000				
Prop ID No (PIN):	04109-0300 (LT)				
Property Municipal Address:	345 - 357 BOOTH STREET, OTTAWA, ONTARIO K1R 7K1				
Mailing Address:					
Latitude & Longitude:					
UTM Coordinates:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Consultant:					
Legal Desc:					
Measurement Method:					
Applicable Standards:					
RSC PDF:					
				https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18941&fileName=BROWNFIELDS-E-FILE.pdf	
<u>Document(s) Detail</u>					
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127-2 Plan of Survey-withnote.pdf A Current plan of Survey https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18936&fileName=450127-2+Plan+of+Survey-withnote.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127- RSC-Table- Current and past uses-Nov2012.pdf Table of Current and Past Property Use https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18944&fileName=450127-+RSC-Table-+Current+and+past+uses-Nov2012.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127-2 Booth - Phase Two Conceptual Site Model-21Dec-14Mar2013.pdf Phase 2 Conceptual Site Model https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18943&fileName=450127-2+Booth-+Phase+Two+Conceptual+Site+Model-21Dec-14Mar2013.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127-2 OwnerCertStatus-Feb2013.pdf Certificate of Status https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18942&fileName=450127-2+OwnerCertStatus-Feb2013.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127- RSC- Table-Area of Potential Environmental Concern -Feb2013.pdf Area(s) of Potential Environmental Concern https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18937&fileName=450127-+RSC-+Table-Area+of+Potential+Environmental+Concern+-Feb2013.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127-2 LawyerLtr-Feb2013.pdf Lawyer's letter consisting of a legal description of the property https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18940&fileName=450127-2+LawyerLtr-Feb2013.pdf	
Document Heading:					
Document Name:					
Document Type:					
Document Link:					
				Supporting Documents 450127-2 Land Transfer - Tax Stm.pdf Copy of any deed(s), transfer(s) or other document(s) https://www.lrcsde.lrc.gov.on.ca/BFISWebPublic/pub/viewDocument.action?attachmentId=18945&fileName=450127-2+Land+Transfer-+Tax+Stm.pdf	

35

2 of 2

NNE/149.3

73.8 / 3.24

345 Booth St Ltd
345 - 357 Booth St
Ottawa ON K2P 1A1

ECA

Approval No:

9516-9HUMKE

Approval Date:

2014-04-23

Status:

Approved

Record Type:

ECA

Link Source:

IDS

SWP Area Name:

Rideau Valley

Approval Type:

ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS

Project Type:

MUNICIPAL AND PRIVATE SEWAGE WORKS

Business Name:

345 Booth St Ltd

Address:

345 - 357 Booth St

MOE District:

Ottawa

City:**Longitude:**

-75.70894

Latitude:

45.407543

Geometry X:**Geometry Y:**

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/5325-9E2R7Z-14.pdf PDF Site Location:					
36	1 of 4	NNE/149.3	73.8 / 3.24	Chado's Autobody Inc. 347 Booth Street Ottawa Ontario K1R 7K1 Ottawa ON	EBR
EBR Registry No: IA03E0237 Ministry Ref No: 8744-5JULGZ Notice Type: Instrument Decision Notice Stage: Notice Date: June 30, 2004 Proposal Date: February 21, 2003 Year: 2003 Instrument Type: (EPA s. 9) - Approval for discharge into the natural environment other than water (i.e. Air) Off Instrument Name: Posted By: Company Name: Chado's Autobody Inc. Site Address: Location Other: Proponent Name: Proponent Address: 347 Booth Street, Ottawa Ontario, K1R 7K1 Comment Period: URL: Site Location Details: 347 Booth Street Ottawa Ontario K1R 7K1 Ottawa					
36	2 of 4	NNE/149.3	73.8 / 3.24	Chado's Autobody Inc. 347 Booth Street Ottawa ON K1R 7K1	CA
Certificate #: 3241-5LHKEE Application Year: 2004 Issue Date: 6/21/2004 Approval Type: Air Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
36	3 of 4	NNE/149.3	73.8 / 3.24	297 Bank St Ltd 347 Booth Street Ottawa ON	GEN
Generator No: ON9586054 SIC Code: 811199 SIC Description: Approval Years: 2011 PO Box No: Country: Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
36	4 of 4	NNE/149.3	73.8 / 3.24	Chado's Autobody Inc. 347 Booth Street Ottawa ON K1R 7K1	ECA
Approval No: 3241-5LHKEE Approval Date: 2004-06-21 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-AIR Project Type: AIR Business Name: Chado's Autobody Inc. Address: 347 Booth Street Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8744-5JULGZ-14.pdf PDF Site Location:		MOE District: Ottawa City: Longitude: -75.70986 Latitude: 45.408607 Geometry X: Geometry Y:			
37	1 of 15	WSW/153.1	67.2 / -3.39	LA PAUSE VELO LTEE/BIKE STOP, THE 225 PRESTON STREET, REAR UNIT OTTAWA ON K1R 7R1	GEN
Generator No: ON0990703 SIC Code: 6542 SIC Description: BICYCLE SHOPS Approval Years: 97,98 PO Box No: Country:		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:			
Detail(s)					
Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES					
37	2 of 15	WSW/153.1	67.2 / -3.39	LA PAUSE VELO LIMITEE 225 PRESTON STREET OTTAWA ON K1R 7R1	GEN
Generator No: ON0990703 SIC Code: 6542 SIC Description: BICYCLE SHOPS Approval Years: 99,00,01 PO Box No: Country:		Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:			
Detail(s)					
Waste Class: 213 Waste Class Desc: PETROLEUM DISTILLATES					
37	3 of 15	WSW/153.1	67.2 / -3.39	225 Preston St. Ottawa ON K1R 7R1	EHS
Order No: 20041122017 Status: C Report Type: Complete Report Report Date: 11/30/04 Date Received: 11/22/04 Previous Site Name: Lot/Building Size:		Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): 0.25 X: -75.712311 Y: 45.405582			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans			
37	4 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	Offices of Physicians			Choice of Contact:	
Approval Years:	06,07,08			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
37	5 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	Offices of Physicians			Choice of Contact:	
Approval Years:	2009			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
37	6 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	Offices of Physicians			Choice of Contact:	
Approval Years:	2010			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
37	7 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	Offices of Physicians			Choice of Contact:	
Approval Years:	2011			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
37	8 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	Offices of Physicians			Choice of Contact:	
Approval Years:	2012			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
37	9 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	OFFICES OF PHYSICIANS			Choice of Contact:	
Approval Years:	2013			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
37	10 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	
SIC Description:	OFFICES OF PHYSICIANS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2016			Phone No Admin:	
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No
<u>Detail(s)</u>					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
37	11 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	Di Lu
SIC Description:	OFFICES OF PHYSICIANS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2015			Phone No Admin:	613-726-3559 Ext.26
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No
<u>Detail(s)</u>					
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
37	12 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	
SIC Code:	621110			Co Admin:	Di Lu
SIC Description:	OFFICES OF PHYSICIANS			Choice of Contact:	CO_OFFICIAL
Approval Years:	2014			Phone No Admin:	613-726-3559 Ext.26
PO Box No:				Contam. Facility:	No
Country:	Canada			MHSW Facility:	No
<u>Detail(s)</u>					
Waste Class:	312				
Waste Class Desc:	PATHOLOGICAL WASTES				
Waste Class:	261				
Waste Class Desc:	PHARMACEUTICALS				
37	13 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No:	ON4912346			Status:	Registered
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:	As of Dec 2018			Phone No Admin:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
PO Box No: Country:	Canada			Contam. Facility: MHSW Facility:	
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	261 A Pharmaceuticals				
Waste Class: Waste Class Desc:	312 P Pathological wastes				
<u>37</u>	14 of 15	WSW/153.1	67.2 / -3.39	Preston Medical Management Inc. 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:	ON4912346 As of Jul 2020 Canada			Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Registered
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	261 A Pharmaceuticals				
Waste Class: Waste Class Desc:	312 P Pathological wastes				
<u>37</u>	15 of 15	WSW/153.1	67.2 / -3.39	Appletree Corporate Medical Centre 204 225 Preston Street Ottawa ON K1R 7R1	GEN
Generator No: SIC Code: SIC Description: Approval Years: PO Box No: Country:	ON4912346 As of Nov 2021 Canada			Status: Co Admin: Choice of Contact: Phone No Admin: Contam. Facility: MHSW Facility:	Registered
<u>Detail(s)</u>					
Waste Class: Waste Class Desc:	261 A Pharmaceuticals				
Waste Class: Waste Class Desc:	312 P Pathological wastes				
<u>38</u>	1 of 1	SE/160.8	69.9 / -0.71	818 Gladstone Ave Ottawa ON	WWIS
Well ID: Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Water Type: Casing Material: Audit No: Tag:	7355925 Test Hole Monitoring Observation Wells Z315287 A272571			Data Entry Status: Data Src: Date Received: Selected Flag: Abandonment Rec: Contractor: Form Version: Owner: Street Name:	 3/24/2020 True 6964 7 818 Gladstone Ave

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2020/03/05
Year Completed: 2020
Depth (m): 1.8797016
Latitude: 45.4048873567917
Longitude: -75.7085390982214
Path:

Bore Hole Information

Bore Hole ID:	1008226179	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444551.00
Code OB Desc:		North83:	5028174.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	05-Mar-2020 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1008333457
Layer: 1
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:
Mat2 Desc:
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 6.166999816894531
Formation End Depth UOM: ft

Annular Space/Abandonment

Sealing Record

Plug ID: 1008333909

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:	2				
Plug From:	1				
Plug To:	6.16699981689453				
Plug Depth UOM:	ft				
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:	1008333908				
Layer:	1				
Plug From:	0				
Plug To:	1				
Plug Depth UOM:	ft				
<u>Method of Construction & Well Use</u>					
Method Construction ID:	1008334385				
Method Construction Code:	7				
Method Construction:	Diamond				
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:	1008333056				
Casing No:	0				
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:	1008334712				
Layer:	1				
Slot:	10				
Screen Top Depth:	1.16700005531311				
Screen End Depth:	6.16699981689453				
Screen Material:	5				
Screen Depth UOM:	ft				
Screen Diameter UOM:	inch				
Screen Diameter:	1.6599999666214				
<u>Results of Well Yield Testing</u>					
Pump Test ID:	1008334956				
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:	ft				
Rate UOM:	GPM				
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:	0				
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Hole Diameter</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole ID:		1008334200			
Diameter:		3.0			
Depth From:		0.0			
Depth To:		6.166999816894531			
Hole Depth UOM:		ft			
Hole Diameter UOM:		Inch			
39	1 of 2	SE/161.9	69.9 / -0.71	Ottawa Community Housing 818 Gladstone Ave Ottawa ON K2R 7Y8	GEN
Generator No:		ON2666163		Status: Registered	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		As of Jul 2020		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:		Canada		MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		221 L			
Waste Class Desc:		Light fuels			
39	2 of 2	SE/161.9	69.9 / -0.71	Ottawa Community Housing 818 Gladstone Ave Ottawa ON K2R 7Y8	GEN
Generator No:		ON2666163		Status: Registered	
SIC Code:				Co Admin:	
SIC Description:				Choice of Contact:	
Approval Years:		As of Jan 2021		Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:		Canada		MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:		221 L			
Waste Class Desc:		Light fuels			
40	1 of 1	W/162.4	67.6 / -3.00	LAURENT LEBLANC LIMITED 151 Willow ST Ottawa ON K1R 6W2	EASR
Approval No:		R-009-6112302477		SWP Area Name: Rideau Valley	
Status:		REGISTERED		MOE District: Ottawa	
Date:		2020-05-20		Municipality: Ottawa	
Record Type:		EASR		Latitude: 45.40611111	
Link Source:		MOFA		Longitude: -75.7125	
Project Type:		Water Taking - Construction Dewatering		Geometry X:	
Full Address:				Geometry Y:	
Approval Type:		EASR-Water Taking - Construction Dewatering			
Full PDF Link:		http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2251345			
PDF URL:					
PDF Site Location:					
41	1 of 1	SSE/170.5	69.6 / -1.00	347 ROCHESTER ST Ottawa ON	WWIS
Well ID:		7204404		Data Entry Status:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	7/10/2013
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z168653			Owner:	
Tag:	A098722			Street Name:	347 ROCHESTER ST
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/720\7204404.pdf

Additional Detail(s) (Map)

Well Completed Date: 2013/06/04
Year Completed: 2013
Depth (m): 15.24
Latitude: 45.4046413276947
Longitude: -75.709021592788
Path: 720\7204404.pdf

Bore Hole Information

Bore Hole ID:	1004403116	Elevation:	65.692588
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444513.00
Code OB Desc:		North83:	5028147.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	04-Jun-2013 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1004821775
Layer: 2
Color: 6
General Color: BROWN
Mat1: 05
Most Common Material: CLAY
Mat2: 28
Mat2 Desc: SAND
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.3100000023841858

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation End Depth:		2.440000057220459			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004821776			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		74			
Mat2 Desc:		LAYERED			
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		2.440000057220459			
Formation End Depth:		15.239999771118164			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1004821774			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		02			
Most Common Material:		TOPSOIL			
Mat2:					
Mat2 Desc:					
Mat3:		77			
Mat3 Desc:		LOOSE			
Formation Top Depth:		0.0			
Formation End Depth:		0.3100000023841858			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004821785			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004821787			
Layer:		3			
Plug From:		12			
Plug To:		15.2399997711182			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1004821786			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		12			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
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Plug Depth UOM: m

Method of Construction & Well Use

Method Construction ID: 1004821784
Method Construction Code: 5
Method Construction: Air Percussion
Other Method Construction:

Pipe Information

Pipe ID: 1004821773
Casing No: 0
Comment:
Alt Name:

Construction Record - Casing

Casing ID: 1004821780
Layer: 1
Material: 5
Open Hole or Material: PLASTIC
Depth From: 0
Depth To: 12.1899995803833
Casing Diameter: 4.03000020980835
Casing Diameter UOM: cm
Casing Depth UOM: m

Construction Record - Screen

Screen ID: 1004821781
Layer: 1
Slot: 10
Screen Top Depth: 12.1899995803833
Screen End Depth: 15.2399997711182
Screen Material: 5
Screen Depth UOM: m
Screen Diameter UOM: cm
Screen Diameter: 4.82000017166138

Water Details

Water ID: 1004821779
Layer:
Kind Code:
Kind:
Water Found Depth:
Water Found Depth UOM: m

Hole Diameter

Hole ID: 1004821778
Diameter: 7.619999885559082
Depth From:
Depth To:
Hole Depth UOM: m
Hole Diameter UOM: cm

Hole Diameter

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole ID:		1004821777			
Diameter:		11.430000305175781			
Depth From:		0.0			
Depth To:		2.440000057220459			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
42	1 of 3	WSW/170.8	66.9 / -3.69	PRESTON AUTO CENTRE INC 241 PRESTON ST OTTAWA ON K1R 7R3	PRT
Location ID:		11042			
Type:		retail			
Expiry Date:		1993-12-31			
Capacity (L):		7919			
Licence #:		0056555001			
42	2 of 3	WSW/170.8	66.9 / -3.69	City of Ottawa South East corner of Preston and Balsam 241 PRESTON STREET, OTTAWA<UNOFFICIAL> Ottawa ON K1R 7R3	SPL
Ref No:		1823-6S4LH6		Discharger Report:	
Site No:				Material Group:	Other
Incident Dt:		7/27/2006		Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:		Unknown		Sector Type:	Other
Incident Event:				Agency Involved:	
Contaminant Code:		99		Nearest Watercourse:	
Contaminant Name:		Hydrocarbon and lead contaminated water		Site Address:	SOUTH EAST CORNER OF PRESTON AND BALSAM
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:		Possible		Site Municipality:	Ottawa
Nature of Impact:		Groundwater Pollution		Site Lot:	
Receiving Medium:		Land & Water		Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:		7/27/2006		Site Map Datum:	
Dt Document Closed:				SAC Action Class:	
Incident Reason:				Source Type:	
Site Name:		SOUTH EAST CORNER OF PRESTON AND BALSAM			
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		SE corner of Balsam & Preston: oil & lead contaminated water			
Contaminant Qty:		Not specified			
42	3 of 3	WSW/170.8	66.9 / -3.69	PRESTON AUTO CENTRE INC 241 PRESTON ST OTTAWA ON K1R 7R3	DTNK
<u>Delisted Expired Fuel Safety Facilities</u>					
Instance No:		9838975		Expired Date:	2/4/1993
Status:		EXPIRED		Max Hazard Rank:	
Instance ID:				Facility Location:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<p> Instance Type: FS Facility Instance Creation Dt: Instance Install Dt: Item Description: Manufacturer: Model: Serial No: ULC Standard: Quantity: Unit of Measure: Overfill Prot Type: Creation Date: Next Periodic Str DT: TSSA Base Sched Cycle 2: TSSAMax Hazard Rank 1: TSSA Risk Based Periodic Yn: TSSA Volume of Directives: TSSA Periodic Exempt: TSSA Statutory Interval: TSSA Recd Insp Interva: TSSA Recd Tolerance: TSSA Program Area: TSSA Program Area 2: Description: Original Source: EXP Record Date: Up to May 2013 </p>					
43	1 of 1	N/171.1	73.9 / 3.31	City of Ottawa Anderson Street, Eccles Street, and Poplar Street Ottawa ON	CA
<p> Certificate #: 4003-5QTN78 Application Year: 2003 Issue Date: 9/11/2003 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: </p>					
44	1 of 1	NE/171.9	74.6 / 4.00	PRIVATE RESIDENCE 112 LEBRETON ST. NORTH FURNACE OIL TANK OTTAWA CITY ON K1R 7H4	SPL
<p> Ref No: 220655 Site No: Incident Dt: Year: Incident Cause: OTHER CONTAINER LEAK Incident Event: Contaminant Code: Contaminant Name: Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: POSSIBLE Nature of Impact: Soil contamination </p>					
<p> Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: 20107 Site Lot: </p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Receiving Medium: LAND Receiving Env: MOE Response: Dt MOE Arvl on Scn: MOE Reported Dt: 1/30/2002 Dt Document Closed: Incident Reason: UNKNOWN Site Name: Site County/District: Site Geo Ref Meth: Incident Summary: PRIVATE RESIDENCE- UNK QUANTITY FURNACE OIL TO GROUND. FROZEN. Contaminant Qty:					
Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Source Type:					
45	1 of 3	W/175.6	66.9 / -3.64	INVITATIONS PLUS 193 PRESTON ST OTTAWA ON K1R 7P8	SCT
Established: 1994 Plant Size (ft²): 0 Employment: 0					
--Details--					
Description: Quick Printing SIC/NAICS Code: 323114					
Description: Digital Printing SIC/NAICS Code: 323115					
Description: Other Printing SIC/NAICS Code: 323119					
45	2 of 3	W/175.6	66.9 / -3.64	6176381 Canada Inc. 191-193 Preston St Ottawa ON	CA
Certificate #: 3042-82DHGD Application Year: 2010 Issue Date: 2/11/2010 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:					
45	3 of 3	W/175.6	66.9 / -3.64	6176381 Canada Inc. 191 - 193 Preston St Ottawa ON K2E 5A4	ECA
Approval No: 3042-82DHGD Approval Date: 2010-02-11 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS					
MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Project Type:		MUNICIPAL AND PRIVATE SEWAGE WORKS			
Business Name:		6176381 Canada Inc.			
Address:		191 - 193 Preston St			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/8985-7XRL8T-14.pdf			
PDF Site Location:					

46	1 of 1	SE/177.3	69.9 / -0.69	818 Gladstone Ave Ottawa ON	WWIS
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Well ID:	7355926	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Test Hole	Date Received:	3/24/2020
Sec. Water Use:	Monitoring	Selected Flag:	True
Final Well Status:	Observation Wells	Abandonment Rec:	
Water Type:		Contractor:	6964
Casing Material:		Form Version:	7
Audit No:	Z315286	Owner:	
Tag:	A272572	Street Name:	818 Gladstone Ave
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2020/03/05
Year Completed:	2020
Depth (m):	1.9812
Latitude:	45.4047162661866
Longitude:	-75.7085497375282
Path:	

Bore Hole Information

Bore Hole ID:	1008226182	Elevation:	
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444550.00
Code OB Desc:		North83:	5028155.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	05-Mar-2020 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Materials Interval</u>					
Formation ID:		1008333458			
Layer:		1			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:		85			
Mat3 Desc:		SOFT			
Formation Top Depth:		0.0			
Formation End Depth:		6.5			
Formation End Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008333910			
Layer:		1			
Plug From:		0			
Plug To:		1			
Plug Depth UOM:		ft			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1008333911			
Layer:		2			
Plug From:		1			
Plug To:		6.5			
Plug Depth UOM:		ft			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1008334386			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1008333057			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1008334713			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.5			
Screen End Depth:		6.5			
Screen Material:		5			
Screen Depth UOM:		ft			
Screen Diameter UOM:		inch			
Screen Diameter:		1.6599999666214			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Results of Well Yield Testing</u>					
Pump Test ID:		1008334957			
Pump Set At:					
Static Level:					
Final Level After Pumping:					
Recommended Pump Depth:					
Pumping Rate:					
Flowing Rate:					
Recommended Pump Rate:					
Levels UOM:		ft			
Rate UOM:		GPM			
Water State After Test Code:					
Water State After Test:					
Pumping Test Method:		0			
Pumping Duration HR:					
Pumping Duration MIN:					
Flowing:					
<u>Water Details</u>					
Water ID:		1008334842			
Layer:		1			
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		ft			
<u>Hole Diameter</u>					
Hole ID:		1008334201			
Diameter:		3.0			
Depth From:		0.0			
Depth To:		6.5			
Hole Depth UOM:		ft			
Hole Diameter UOM:		Inch			
<u>47</u>	1 of 1	NNW/179.2	71.9 / 1.34	Esso Home Comfort Centre<UNOFFICIAL> 24 Anderson St. Ottawa ON K1R 6T5	SPL
Ref No:	1224-62QMB3			Discharger Report:	
Site No:				Material Group:	Oil
Incident Dt:	7/9/2004			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	Tank (Above Ground) Leak			Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:	13			Nearest Watercourse:	
Contaminant Name:	FURNACE OIL			Site Address:	
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	Eastern
Environment Impact:	Not Anticipated			Site Municipality:	Ottawa
Nature of Impact:	Other Impact(s)			Site Lot:	
Receiving Medium:	Water			Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	7/9/2004			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	M.C.B.S. - Fuel Safety; Spills
Incident Reason:	Material Failure - Poor design or substandard materials			Source Type:	
Site Name:	PRIVATE RESIDENT<UNOFFICIAL>				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		Ottawa-15 gal furnace oil to drain.			
Contaminant Qty:		68.25 L			
48	1 of 2	NNE/185.0	74.4 / 3.85	CANADIAN VETERINARY MEDICAL 339 BOOTH ST OTTAWA ON K1R 7K1	SCT
Established:		1960			
Plant Size (ft²):		2000			
Employment:		4			
--Details--					
Description:		PERIODICALS: PUBLISHING, OR PUBLISHING AND PRINTING			
SIC/NAICS Code:		2721			
Description:		Periodical Publishers			
SIC/NAICS Code:		511120			
48	2 of 2	NNE/185.0	74.4 / 3.85	Canadian Veterinary Medical Association 339 Booth St Ottawa ON K1R 7K1	SCT
Established:		1960			
Plant Size (ft²):		2000			
Employment:		4			
49	1 of 1	SE/190.9	69.9 / -0.69	818 Gladstone Avenue Ottawa ON K1R 7N3	EHS
Order No:		20190530200		Nearest Intersection:	
Status:		C		Municipality:	
Report Type:		Standard Report		Client Prov/State: ON	
Report Date:		06-JUN-19		Search Radius (km): .25	
Date Received:		30-MAY-19		X: -75.708435	
Previous Site Name:				Y: 45.40462	
Lot/Building Size:					
Additional Info Ordered:					
50	1 of 1	W/192.3	65.9 / -4.69	ON	BORE
Borehole ID:		613150		Inclin FLG: No	
OGF ID:		215514454		SP Status: Initial Entry	
Status:				Surv Elev: No	
Type:		Borehole		Piezometer: No	
Use:				Primary Name:	
Completion Date:				Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD: 45.406375	
Total Depth m:		-999		Longitude DD: -75.712779	
Depth Ref:		Ground Surface		UTM Zone: 18	
Depth Elev:				Easting: 444221	
Drill Method:				Northing: 5028342	
Orig Ground Elev m:		61		Location Accuracy:	
Elev Reliabil Note:				Accuracy: Not Applicable	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
DEM Ground Elev m: 57.9					
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218393912			Mat Consistency:	
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.2			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Gravel			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SAND.				
Geology Stratum ID:	218393914			Mat Consistency:	Firm
Top Depth:	2.1			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Black			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	BEDROCK. RM. TILL. FIRM. BEDROCK. 0025016CK,VERY HARD. BEDROCK. BLACK. LT.				
Geology Stratum ID:	218393913			Mat Consistency:	
Top Depth:	1.2			Material Moisture:	
Bottom Depth:	2.1			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Clay			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SAND.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Ident:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:	H			Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 056580 NTS_Sheet: 31G05G				
Confiden 1:	Logged by professional. Exact and complete description of material and properties.				
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
51	1 of 3	WSW/193.3	66.6 / -4.00	R.M. OF OTTAWA-CARLETON BALSAM AVE/PRESTON ST. OTTAWA ON	CA
<p> Certificate #: 7-0346-98- Application Year: 98 Issue Date: 5/14/1998 Approval Type: Municipal water Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control: </p>					
51	2 of 3	WSW/193.3	66.6 / -4.00	Intersection of Balsam St and Preston St Ottawa ON	SPL
<p> Ref No: 2814-7WZHFk Site No: Incident Dt: Year: Incident Cause: Discharge or Emission to Air Incident Event: Contaminant Code: 35 Contaminant Name: NATURAL GAS (METHANE) Contaminant Limit 1: Contam Limit Freq 1: Contaminant UN No 1: Environment Impact: Not Anticipated Nature of Impact: Receiving Medium: Receiving Env: MOE Response: Referral to others Dt MOE Arvl on Scn: MOE Reported Dt: 10/20/2009 Dt Document Closed: 12/18/2009 Incident Reason: Damage By Moving Equipment - Containers damaged by moving Site Name: Gas Main Strike<UNOFFICIAL> Site County/District: Site Geo Ref Meth: Incident Summary: TSSA: Gas main damage, Ottawa Contaminant Qty: 0 other - see incident description </p> <p> Discharger Report: Material Group: Health/Env Conseq: Client Type: Sector Type: Pipeline Agency Involved: Nearest Watercourse: Site Address: Site District Office: Site Postal Code: Site Region: Site Municipality: Site Lot: Site Conc: Northing: Easting: Site Geo Ref Accu: Site Map Datum: SAC Action Class: Air Spills - Gases and Vapours Source Type: </p>					
51	3 of 3	WSW/193.3	66.6 / -4.00	BALSAM ST. & PRESTON ST., OTTAWA ON	INC
<p> Incident No: 218290 Incident ID: 2369346 Instance No: Status Code: Causal Analysis Complete Attribute Category: FS-Incident Context: Date of Occurrence: Time of Occurrence: Incident Created On: Instance Creation Dt: Instance Install Dt: </p> <p> Any Health Impact: Any Enviro Impact: Service Interrupted: Was Prop Damaged: Reside App. Type: Commer App. Type: Indus App. Type: Institut App. Type: Venting Type: Vent Conn Mater: Vent Chimney Mater: </p>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Occur Insp Start Date: Approx Quant Rel: Tank Capacity: Fuels Occur Type: Fuel Type Involved: Enforcement Policy: Prc Escalation Req: Tank Material Type: Tank Storage Type: Tank Location Type: Pump Flow Rate Cap: Task No: Notes: Drainage System: Sub Surface Contam.: Aff Prop Use Water: Contam. Migrated: Contact Natural Env: Incident Location: Occurrence Narrative: Operation Type Involved: Item: Item Description: Device Installed Location:				Pipeline Type: Main Distribution Pipeline Pipeline Involved: Pipe Material: Plastic Depth Ground Cover: 42 Regulator Location: Regulator Type: Operation Pressure: 58 Liquid Prop Make: Liquid Prop Model: Liquid Prop Serial No: Liquid Prop Notes: Equipment Type: Equipment Model: Serial No: Cylinder Capacity: Cylinder Cap Units: Cylinder Mat Type: Near Body of Water:	
<p>BALSAM ST. & PRESTON ST., OTTAWA - PIPELINE HIT Gas main was exposed then struck by backhoe operator with the labourer guiding him.</p>					

[52](#) 1 of 2 SSE/197.0 68.9 / -1.66 City of Ottawa 301 Preston St Ottawa ON K1R 0A6 CA

Certificate #: 7204-76CQS7
Application Year: 2007
Issue Date: 8/24/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

[52](#) 2 of 2 SSE/197.0 68.9 / -1.66 City of Ottawa 301 Preston St Ottawa ON K2P 1J1 ECA

Approval No: 7204-76CQS7
Approval Date: 2007-08-24
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name: Rideau Valley
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: 301 Preston St
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/8379-74AQM6-14.pdf>
PDF Site Location:

MOE District: Ottawa
City:
Longitude: -75.71143
Latitude: 45.403637
Geometry X:
Geometry Y:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
53	1 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
53	2 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
53	3 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
53	4 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
53	5 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<i>Additional Info Ordered:</i>					
53	6 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
53	7 of 7	W/197.5	67.0 / -3.61	185 Preston Street Ottawa ON K1R 7P8	EHS
Order No:	20191127055			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	02-DEC-19			Search Radius (km):	.25
Date Received:	27-NOV-19			X:	-75.712842
Previous Site Name:				Y:	45.406438
Lot/Building Size:					
Additional Info Ordered:					
54	1 of 1	ESE/203.2	71.8 / 1.26	54 LOUISA ST Ottawa ON	WWIS
Well ID:	7239792			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	4/9/2015
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z201432			Owner:	
Tag:	A175627			Street Name:	54 LOUISA ST
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):					
Additional Detail(s) (Map)					
Well Completed Date:	2015/03/20				
Year Completed:	2015				
Depth (m):	5.48				
Latitude:	45.4051828994358				
Longitude:	-75.707328855688				
Path:					

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

Bore Hole ID:	1005322483	Elevation:	68.765083
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444646.00
Code OB Desc:		North83:	5028206.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	20-Mar-2015 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1005576500
Layer:	1
Color:	6
General Color:	BROWN
Mat1:	28
Most Common Material:	SAND
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	77
Mat3 Desc:	LOOSE
Formation Top Depth:	0.0
Formation End Depth:	1.5199999809265137
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1005576501
Layer:	2
Color:	2
General Color:	GREY
Mat1:	15
Most Common Material:	LIMESTONE
Mat2:	17
Mat2 Desc:	SHALE
Mat3:	74
Mat3 Desc:	LAYERED
Formation Top Depth:	1.5199999809265137
Formation End Depth:	5.480000019073486
Formation End Depth UOM:	m

Annular Space/Abandonment

Sealing Record

Plug ID:	1005576512
Layer:	3
Plug From:	2.13000011444092
Plug To:	5.48000001907349
Plug Depth UOM:	m

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576510			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576511			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		2.13000011444092			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005576509			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005576499			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005576506			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.4300000667572			
Screen End Depth:		5.48000001907349			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82000017166138			
<u>Water Details</u>					
Water ID:		1005576504			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005576503			
Diameter:		7.619999885559082			
Depth From:		1.8200000524520874			
Depth To:		5.480000019073486			
Hole Depth UOM:		m			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1005576502			
Diameter:		11.430000305175781			
Depth From:		0.0			
Depth To:		1.8200000524520874			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>55</u>	1 of 1	ENE/205.8	75.0 / 4.42	PRIVATE RESIDENCE 20 WILLOW ST. FURNACE OIL TANK OTTAWA CITY ON K1R 6V6	SPL
Ref No:	78576	Discharger Report:			
Site No:		Material Group:			
Incident Dt:	11/10/1992	Health/Env Conseq:			
Year:		Client Type:			
Incident Cause:	OTHER CONTAINER LEAK	Sector Type:			
Incident Event:		Agency Involved:			
Contaminant Code:		Nearest Watercourse:			
Contaminant Name:		Site Address:			
Contaminant Limit 1:		Site District Office:			
Contam Limit Freq 1:		Site Postal Code:			
Contaminant UN No 1:		Site Region:			
Environment Impact:	CONFIRMED	Site Municipality: 20101			
Nature of Impact:	Soil contamination	Site Lot:			
Receiving Medium:	LAND	Site Conc:			
Receiving Env:		Northing:			
MOE Response:		Easting:			
Dt MOE Arvl on Scr:		Site Geo Ref Accu:			
MOE Reported Dt:	11/10/1992	Site Map Datum:			
Dt Document Closed:		SAC Action Class:			
Incident Reason:	CORROSION	Source Type:			
Site Name:					
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	RESIDENT: OUTDOOR FURNACETANK CORRODED; 800L FURNACE OIL LEAK				
Contaminant Qty:					

<u>56</u>	1 of 1	NNW/206.6	72.9 / 2.36	9 Anderson St Ottawa ON K1R6T4	EHS
Order No:	20170419045	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State: ON			
Report Date:	25-APR-17	Search Radius (km): .25			
Date Received:	19-APR-17	X: -75.710355			
Previous Site Name:		Y: 45.408305			
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; City Directory				

<u>57</u>	1 of 1	WSW/207.5	65.9 / -4.69	224 Preston Street Ottawa ON K1R 7R1	EHS
Order No:	21080600433	Nearest Intersection:			
Status:	C	Municipality:			
Report Type:	Standard Report	Client Prov/State: ON			
Report Date:	11-AUG-21	Search Radius (km): .25			
Date Received:	06-AUG-21	X: -75.7127825			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Previous Site Name:				Y:	45.4056284
Lot/Building Size:					
Additional Info Ordered:				Fire Insur. Maps and/or Site Plans; Topographic Maps; City Directory; Aerial Photos	

58	1 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA ON K1R6X6	PRT
Location ID:		10943			
Type:		retail			
Expiry Date:		1996-03-31			
Capacity (L):		40800			
Licence #:		0022068001			

58	2 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE AVE OTTAWA ON K1R6X6	RST
Headcode:		1186800			
Headcode Desc:		Service Stations-Gasoline, Oil & Natural Gas			
Phone:		6132365236			
List Name:					
Description:					

58	3 of 12	ENE/209.7	73.8 / 3.22	J & M REBUILDER 779 GLADSTONE AVE OTTAWA ON K1R 6X6	AUWR
Headcode:		00096400			
Headcode Desc:		AUTOMOBILE PARTS & SUPPLIES-USED & REBUILT			
Phone:					
List Name:					
Description:					

58	4 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA ON K1R 6X6	DTNK
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**Delisted Expired Fuel Safety
Facilities**

Instance No:	9548585	Expired Date:	3/25/2000
Status:	EXPIRED	Max Hazard Rank:	
Instance ID:		Facility Location:	
Instance Type:	FS Facility	Facility Type:	
Instance Creation Dt:		Fuel Type 2:	
Instance Install Dt:		Fuel Type 3:	
Item Description:		Panam Related:	
Manufacturer:		Panam Venue Nm:	
Model:		External Identifier:	
Serial No:		Item:	
ULC Standard:		Piping Steel:	
Quantity:		Piping Galvanized:	
Unit of Measure:		Tank Single Wall St:	
Overfill Prot Type:		Piping Underground:	
Creation Date:		Tank Underground:	
Next Periodic Str DT:		Source:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
TSSA Base Sched Cycle 2: TSSAMax Hazard Rank 1: TSSA Risk Based Periodic Yn: TSSA Volume of Directives: TSSA Periodic Exempt: TSSA Statutory Interval: TSSA Recd Insp Interva: TSSA Recd Tolerance: TSSA Program Area: TSSA Program Area 2: Description: Original Source: EXP Record Date: Up to May 2013					

58	5 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA ON	DTNK
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Delisted Expired Fuel Safety Facilities

Instance No: 11319706 Status: EXPIRED Instance ID: 78820 Instance Type: FS Piping Instance Creation Dt: Instance Install Dt: Item Description: Manufacturer: Model: Serial No: ULC Standard: Quantity: Unit of Measure: Overfill Prot Type: Creation Date: Next Periodic Str DT: TSSA Base Sched Cycle 2: TSSAMax Hazard Rank 1: TSSA Risk Based Periodic Yn: TSSA Volume of Directives: TSSA Periodic Exempt: TSSA Statutory Interval: TSSA Recd Insp Interva: TSSA Recd Tolerance: TSSA Program Area: TSSA Program Area 2: Description: FS Piping Original Source: EXP Record Date: Up to Mar 2012	Expired Date: Max Hazard Rank: Facility Location: Facility Type: Fuel Type 2: Fuel Type 3: Panam Related: Panam Venue Nm: External Identifier: Item: Piping Steel: Piping Galvanized: Tank Single Wall St: Piping Underground: Tank Underground: Source:
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58	6 of 12	ENE/209.7	73.8 / 3.22	J & M REBUILDER 779 GLADSTONE AVE OTTAWA ON K1R6X6	AUWR
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Headcode: 00096400 Headcode Desc: AUTOMOBILE PARTS & SUPPLIES USED & REBUILT Phone: 6132361898 List Name: INFO-DIRECT(TM) BUSINESS FILE Description:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
58	7 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	DTNK
58	8 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	DTNK
58	9 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE OTTAWA K1R 6X6 ON CA ON	DTNK
58	10 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	FST

Instance No:	10902887	Manufacturer:	
Status:		Serial No:	
Cont Name:		Ulc Standard:	
Instance Type:		Quantity:	
Item:	FS LIQUID FUEL TANK	Unit of Measure:	
Item Description:	FS Liquid Fuel Tank	Fuel Type:	Gasoline
Tank Type:	Liquid Fuel Single Wall UST	Fuel Type2:	NULL
Install Date:	10/2/1989	Fuel Type3:	NULL
Install Year:	1986	Piping Steel:	
Years in Service:		Piping Galvanized:	
Model:	NULL	Tanks Single Wall St:	
Description:		Piping Underground:	
Capacity:	13600	Num Underground:	
Tank Material:	Steel	Panam Related:	
Corrosion Protect:		Panam Venue:	
Overfill Protect:			
Facility Type:	FS Liquid Fuel Tank		
Parent Facility Type:			
Facility Location:			
Device Installed Location:	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA		

Fuel Storage Tank Details

Owner Account Name: ANGELO LORELLI SERVICE CENTRE LTD

Liquid Fuel Tank Details

Overfill Protection:
Owner Account Name: ANGELO LORELLI SERVICE CENTRE LTD
Item: FS LIQUID FUEL TANK

58	11 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	FST
Instance No:	11319660	Manufacturer:			
Status:		Serial No:			
Cont Name:		Ulc Standard:			
Instance Type:		Quantity:			
Item:	FS LIQUID FUEL TANK	Unit of Measure:			
Item Description:	FS Liquid Fuel Tank	Fuel Type:	Gasoline		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Tank Type:	Liquid Fuel Single Wall UST			Fuel Type2:	NULL
Install Date:	10/2/1989			Fuel Type3:	NULL
Install Year:	1986			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	13600			Num Underground:	
Tank Material:	Steel			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA				
<u>Fuel Storage Tank Details</u>					
Owner Account Name:	ANGELO LORELLI SERVICE CENTRE LTD				
<u>Liquid Fuel Tank Details</u>					
Overfill Protection:					
Owner Account Name:	ANGELO LORELLI SERVICE CENTRE LTD				
Item:	FS LIQUID FUEL TANK				
58	12 of 12	ENE/209.7	73.8 / 3.22	ANGELO LORELLI SERVICE CENTRE LTD 779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA ON	FST
Instance No:	11319685			Manufacturer:	
Status:				Serial No:	
Cont Name:				Ulc Standard:	
Instance Type:	FS LIQUID FUEL TANK			Quantity:	
Item:	FS LIQUID FUEL TANK			Unit of Measure:	
Item Description:	FS Liquid Fuel Tank			Fuel Type:	Gasoline
Tank Type:	Liquid Fuel Single Wall UST			Fuel Type2:	NULL
Install Date:	10/2/1989			Fuel Type3:	NULL
Install Year:	1986			Piping Steel:	
Years in Service:				Piping Galvanized:	
Model:	NULL			Tanks Single Wall St:	
Description:				Piping Underground:	
Capacity:	13600			Num Underground:	
Tank Material:	Steel			Panam Related:	
Corrosion Protect:				Panam Venue:	
Overfill Protect:					
Facility Type:	FS Liquid Fuel Tank				
Parent Facility Type:					
Facility Location:					
Device Installed Location:	779 GLADSTONE AVE OTTAWA K1R 6X6 ON CA				
<u>Fuel Storage Tank Details</u>					
Owner Account Name:	ANGELO LORELLI SERVICE CENTRE LTD				
<u>Liquid Fuel Tank Details</u>					
Overfill Protection:					
Owner Account Name:	ANGELO LORELLI SERVICE CENTRE LTD				
Item:	FS LIQUID FUEL TANK				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
59	1 of 1	NNE/210.2	75.0 / 4.40	66 LEBRETON ST. N. OTTAWA ON	WWIS

Well ID:	7261917	Data Entry Status:	
Construction Date:		Data Src:	
Primary Water Use:	Monitoring	Date Received:	4/25/2016
Sec. Water Use:		Selected Flag:	True
Final Well Status:	Monitoring and Test Hole	Abandonment Rec:	
Water Type:		Contractor:	7241
Casing Material:		Form Version:	7
Audit No:	Z222255	Owner:	
Tag:	A170502	Street Name:	66 LEBRETON ST. N.
Construction Method:		County:	OTTAWA
Elevation (m):		Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:		Site Info:	
Depth to Bedrock:		Lot:	
Well Depth:		Concession:	
Overburden/Bedrock:		Concession Name:	
Pump Rate:		Easting NAD83:	
Static Water Level:		Northing NAD83:	
Flowing (Y/N):		Zone:	
Flow Rate:		UTM Reliability:	
Clear/Cloudy:			

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7261917.pdf

Additional Detail(s) (Map)

Well Completed Date: 2016/04/08
Year Completed: 2016
Depth (m): 4.88
Latitude: 45.4083141250225
Longitude: -75.7089780905357
Path: 726\7261917.pdf

Bore Hole Information

Bore Hole ID:	1005937634	Elevation:	68.848777
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444520.00
Code OB Desc:		North83:	5028555.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	08-Apr-2016 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock Materials Interval

Formation ID: 1006043455
Layer: 2
Color: 2
General Color: GREY
Mat1: 15
Most Common Material: LIMESTONE
Mat2:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:					
Mat3:		71			
Mat3 Desc:		FRACTURED			
Formation Top Depth:		1.5			
Formation End Depth:		4.880000114440918			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006043454			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		1.5			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043465			
Layer:		3			
Plug From:		2.74000000953674			
Plug To:		4.86999988555908			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043464			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		2.74000000953674			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043463			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		1006043462			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pipe ID:		1006043453			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1006043460			
Layer:		1			
Slot:		0			
Screen Top Depth:		2.74000000953674			
Screen End Depth:		4.86999988555908			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1006043458			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1006043456			
Diameter:		8.0			
Depth From:		0.0			
Depth To:		2.440000057220459			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1006043457			
Diameter:		5.599999904632568			
Depth From:		2.440000057220459			
Depth To:		4.869999885559082			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

60

1 of 1

WNW/210.4

66.9 / -3.69

173-177 PRESTON ST
Ottawa ON

WWIS

Well ID: 7230093
Construction Date:
Primary Water Use: Monitoring
Sec. Water Use:
Final Well Status: Observation Wells
Water Type:
Casing Material:
Audit No: Z180597
Tag: A153936
Construction Method:
Elevation (m):
Elevation Reliability:
Depth to Bedrock:
Well Depth:
Overburden/Bedrock:

Data Entry Status:
Data Src:
Date Received: 10/24/2014
Selected Flag: True
Abandonment Rec:
Contractor: 1844
Form Version: 7
Owner:
Street Name: 173-177 PRESTON ST
County: OTTAWA
Municipality: NEPEAN TOWNSHIP
Site Info:
Lot:
Concession:
Concession Name:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):					
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2014/01/17			
Year Completed:		2014			
Depth (m):		10.9			
Latitude:		45.4069036176719			
Longitude:		-75.7128834980383			
Path:					
<u>Bore Hole Information</u>					
Bore Hole ID:		1005178388		Elevation: 58.289070	
DP2BR:				Elevrc:	
Spatial Status:				Zone: 18	
Code OB:				East83: 444213.00	
Code OB Desc:				North83: 5028401.00	
Open Hole:				Org CS: UTM83	
Cluster Kind:				UTMRC: 4	
Date Completed:		17-Jan-2014 00:00:00		UTMRC Desc: margin of error : 30 m - 100 m	
Remarks:				Location Method: wwr	
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1005361729			
Layer:		5			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		13			
Mat3 Desc:		BOULDERS			
Formation Top Depth:		3.9000000953674316			
Formation End Depth:		10.899999618530273			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1005361727			
Layer:		3			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2 Desc:		SAND			
Mat3:		01			
Mat3 Desc:		FILL			
Formation Top Depth:		0.6000000238418579			
Formation End Depth:		1.600000023841858			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005361725			
Layer:		1			
Color:					
General Color:					
Mat1:		27			
Most Common Material:		OTHER			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.05000000074505806			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005361728			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		34			
Mat3 Desc:		TILL			
Formation Top Depth:		1.600000023841858			
Formation End Depth:		3.9000000953674316			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005361726			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		01			
Most Common Material:		FILL			
Mat2:		15			
Mat2 Desc:		LIMESTONE			
Mat3:		28			
Mat3 Desc:		SAND			
Formation Top Depth:		0.05000000074505806			
Formation End Depth:		0.6000000238418579			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005361736			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Layer:		1			
Plug From:		0.300000011920929			
Plug To:		0.600000023841858			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005361735			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		HSA			
<u>Pipe Information</u>					
Pipe ID:		1005361724			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005361733			
Layer:		1			
Slot:		10			
Screen Top Depth:		3			
Screen End Depth:		4.59999990463257			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		3.89000010490417			
<u>Water Details</u>					
Water ID:		1005361731			
Layer:		1			
Kind Code:		8			
Kind:		Untested			
Water Found Depth:		3.5			
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005361730			
Diameter:		20.299999237060547			
Depth From:		0.0			
Depth To:		10.899999618530273			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<hr/>					
61	1 of 2	SW/210.7	65.9 / -4.69	R.M. OF OTTAWA-CARLETON GLADSTONE AVE/PRESTON ST. OTTAWA CITY ON	CA
Certificate #:		7-1017-96-			
Application Year:		96			
Issue Date:		10/18/1996			
Approval Type:		Municipal water			
Status:		Approved			
Application Type:					
Client Name:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
61	2 of 2	SW/210.7	65.9 / -4.69	OTTAWA CITY GLADSTONE AVE/PRESTON ST. CSO OTTAWA CITY ON	CA
Certificate #: 3-1102-97- Application Year: 97 Issue Date: 8/20/1997 Approval Type: Municipal sewage Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					
62	1 of 1	WNW/211.0	66.9 / -3.69	Padom Holdings Ltd. 173 Preston St Ottawa ON K2C 1P1	ECA
Approval No: 6105-A9ZMF9 Approval Date: 2016-05-19 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Rideau Valley Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Padom Holdings Ltd. Address: 173 Preston St Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/9998-A4SMY7-14.pdf PDF Site Location:					
63	1 of 1	WSW/213.0	65.9 / -4.69	OTTAWA ON	WWIS
Well ID: 1535493 Construction Date: Primary Water Use: Sec. Water Use: Final Well Status: Test Hole Water Type: Casing Material: Audit No: Z19259 Tag: _NO_TAG Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth:					
Data Entry Status: Data Src: Date Received: 5/5/2005 Selected Flag: True Abandonment Rec: Contractor: 1844 Form Version: 3 Owner: Street Name: County: OTTAWA Municipality: OTTAWA CITY Site Info: Lot: Concession:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/153\1535493.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2005/05/03			
Year Completed:		2005			
Depth (m):		4.65			
Latitude:		45.4050965726773			
Longitude:		-75.7125285332943			
Path:		153\1535493.pdf			
<u>Bore Hole Information</u>					
Bore Hole ID:		11316032		Elevation:	59.354789
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:		o		East83:	444239.00
Code OB Desc:		Overburden		North83:	5028200.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:		03-May-2005 00:00:00		UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932996483			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		01			
Mat2 Desc:		FILL			
Mat3:		05			
Mat3 Desc:		CLAY			
Formation Top Depth:		1.399999976158142			
Formation End Depth:		1.7000000476837158			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932996482			
Layer:		1			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat2:		11			
Mat2 Desc:		GRAVEL			
Mat3:		01			
Mat3 Desc:		FILL			
Formation Top Depth:		0.0			
Formation End Depth:		1.399999976158142			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		932996484			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		13			
Most Common Material:		BOULDERS			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		11			
Mat3 Desc:		GRAVEL			
Formation Top Depth:		1.7000000476837158			
Formation End Depth:		4.650000095367432			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933268438			
Layer:		1			
Plug From:		4.26999998092651			
Plug To:		1			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		933268439			
Layer:		2			
Plug From:		1			
Plug To:		0			
Plug Depth UOM:		m			
<u>Method of Construction & Well</u>					
<u>Use</u>					
Method Construction ID:		961535493			
Method Construction Code:		6			
Method Construction:		Boring			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		11330887			
Casing No:		1			
Comment:					
Alt Name:					
<u>Construction Record - Casing</u>					
Casing ID:		930855305			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<hr/>					
Layer:	1				
Material:	5				
Open Hole or Material:	PLASTIC				
Depth From:	1.25999999046326				
Depth To:	0				
Casing Diameter:	20				
Casing Diameter UOM:	cm				
Casing Depth UOM:	m				
<u>Construction Record - Screen</u>					
Screen ID:	933412593				
Layer:	1				
Slot:	010				
Screen Top Depth:	1.25999999046326				
Screen End Depth:	4.26000022888184				
Screen Material:	5				
Screen Depth UOM:	m				
Screen Diameter UOM:	cm				
Screen Diameter:	25				
<u>Hole Diameter</u>					
Hole ID:	11533535				
Diameter:	10.0				
Depth From:	0.0				
Depth To:	4.650000095367432				
Hole Depth UOM:	m				
Hole Diameter UOM:	cm				
<hr/>					
64	1 of 1	W/213.1	66.9 / -3.69	173 Preston St Ottawa ON K1R7P6	EHS
Order No:	20131219015			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	RSC Report (Urban)			Client Prov/State:	ON
Report Date:	02-JAN-14			Search Radius (km):	.3
Date Received:	19-DEC-13			X:	-75.712947
Previous Site Name:				Y:	45.406838
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
<hr/>					
65	1 of 1	ESE/214.8	71.8 / 1.26	54 LOUISA ST Ottawa ON	WWIS
Well ID:	7239793			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	4/9/2015
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z201437			Owner:	
Tag:	A175665			Street Name:	54 LOUISA ST
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing (Y/N): Flow Rate: Clear/Cloudy: PDF URL (Map):				Zone: UTM Reliability:	
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:		2015/03/20			
Year Completed:		2015			
Depth (m):		5.48			
Latitude:		45.4050119671837			
Longitude:		-75.7073139441721			
Path:					
<u>Bore Hole Information</u>					
Bore Hole ID:	1005322486	Elevation:	68.500465		
DP2BR:		Elevrc:			
Spatial Status:		Zone:	18		
Code OB:		East83:	444647.00		
Code OB Desc:		North83:	5028187.00		
Open Hole:		Org CS:	UTM83		
Cluster Kind:		UTMRC:	4		
Date Completed:	20-Mar-2015 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m		
Remarks:		Location Method:	wwr		
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1005576555				
Layer:	1				
Color:	8				
General Color:	BLACK				
Mat1:					
Most Common Material:					
Mat2:	11				
Mat2 Desc:	GRAVEL				
Mat3:	66				
Mat3 Desc:	DENSE				
Formation Top Depth:	0.0				
Formation End Depth:	0.3100000023841858				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1005576556				
Layer:	2				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	01				
Mat2 Desc:	FILL				
Mat3:	85				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Mat3 Desc:		SOFT			
Formation Top Depth:		0.3100000023841858			
Formation End Depth:		1.5199999809265137			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005576557			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:		74			
Mat3 Desc:		LAYERED			
Formation Top Depth:		1.5199999809265137			
Formation End Depth:		5.480000019073486			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576566			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576568			
Layer:		3			
Plug From:		2.13000011444092			
Plug To:		5.48000001907349			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576567			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		2.13000011444092			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005576565			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005576554			
Casing No:		0			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005576562			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.4300000667572			
Screen End Depth:		5.48000001907349			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82000017166138			
<u>Water Details</u>					
Water ID:		1005576560			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005576558			
Diameter:		11.430000305175781			
Depth From:		0.0			
Depth To:		1.5199999809265137			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1005576559			
Diameter:		7.619999885559082			
Depth From:		1.5199999809265137			
Depth To:		5.480000019073486			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

66	1 of 1	NNE/217.0	75.3 / 4.76	66 LEBRETON ST. N OTTAWA ON	WWIS
Well ID:	7261920			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring			Date Received:	4/25/2016
Sec. Water Use:				Selected Flag:	True
Final Well Status:	Observation Wells			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z222257			Owner:	
Tag:	A176545			Street Name:	66 LEBRETON ST. N
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7261920.pdf			
<u>Additional Detail(s) (Map)</u>					
Well Completed Date:	2016/04/08				
Year Completed:	2016				
Depth (m):	4.88				
Latitude:	45.4083945750875				
Longitude:	-75.7090685501065				
Path:	726\7261920.pdf				
<u>Bore Hole Information</u>					
Bore Hole ID:	1005937643			Elevation:	69.135047
DP2BR:				Elevrc:	
Spatial Status:				Zone:	18
Code OB:				East83:	444513.00
Code OB Desc:				North83:	5028564.00
Open Hole:				Org CS:	UTM83
Cluster Kind:				UTMRC:	4
Date Completed:	08-Apr-2016 00:00:00			UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:				Location Method:	wwr
Elevrc Desc:					
Location Source Date:					
Improvement Location Source:					
Improvement Location Method:					
Source Revision Comment:					
Supplier Comment:					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1006043502				
Layer:	2				
Color:	2				
General Color:	GREY				
Mat1:	15				
Most Common Material:	LIMESTONE				
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:	1.5				
Formation End Depth:	4.880000114440918				
Formation End Depth UOM:	m				
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:	1006043501				
Layer:	1				
Color:	6				
General Color:	BROWN				
Mat1:	28				
Most Common Material:	SAND				
Mat2:	11				
Mat2 Desc:	GRAVEL				
Mat3:	85				

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<i>Mat3 Desc:</i>		SOFT			
<i>Formation Top Depth:</i>		0.0			
<i>Formation End Depth:</i>		1.5			
<i>Formation End Depth UOM:</i>		m			
 <u><i>Annular Space/Abandonment Sealing Record</i></u>					
<i>Plug ID:</i>		1006043513			
<i>Layer:</i>		4			
<i>Plug From:</i>		2.09999990463257			
<i>Plug To:</i>		4.88000011444092			
<i>Plug Depth UOM:</i>		m			
 <u><i>Annular Space/Abandonment Sealing Record</i></u>					
<i>Plug ID:</i>		1006043510			
<i>Layer:</i>		1			
<i>Plug From:</i>		0			
<i>Plug To:</i>		0.310000002384186			
<i>Plug Depth UOM:</i>		m			
 <u><i>Annular Space/Abandonment Sealing Record</i></u>					
<i>Plug ID:</i>		1006043512			
<i>Layer:</i>		3			
<i>Plug From:</i>		1.22000002861023			
<i>Plug To:</i>		2.09999990463257			
<i>Plug Depth UOM:</i>		m			
 <u><i>Annular Space/Abandonment Sealing Record</i></u>					
<i>Plug ID:</i>		1006043511			
<i>Layer:</i>		2			
<i>Plug From:</i>		0.310000002384186			
<i>Plug To:</i>		1.22000002861023			
<i>Plug Depth UOM:</i>		m			
 <u><i>Method of Construction & Well Use</i></u>					
<i>Method Construction ID:</i>		1006043509			
<i>Method Construction Code:</i>		7			
<i>Method Construction:</i>		Diamond			
<i>Other Method Construction:</i>					
 <u><i>Pipe Information</i></u>					
<i>Pipe ID:</i>		1006043500			
<i>Casing No:</i>		0			
<i>Comment:</i>					
<i>Alt Name:</i>					
 <u><i>Construction Record - Screen</i></u>					
<i>Screen ID:</i>		1006043507			
<i>Layer:</i>		1			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Slot:		10			
Screen Top Depth:		2.13000011444092			
Screen End Depth:		4.88000011444092			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1006043505			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1006043503			
Diameter:		8.0			
Depth From:		0.0			
Depth To:		1.8300000429153442			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1006043504			
Diameter:		5.599999904632568			
Depth From:		1.8300000429153442			
Depth To:		4.880000114440918			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

67	1 of 1	NNE/217.9	74.8 / 4.22	ON	WWIS
Well ID:	7306420			Data Entry Status:	Yes
Construction Date:				Data Src:	
Primary Water Use:				Date Received:	2/26/2018
Sec. Water Use:				Selected Flag:	True
Final Well Status:				Abandonment Rec:	
Water Type:				Contractor:	6964
Casing Material:				Form Version:	8
Audit No:	C34344			Owner:	
Tag:	A147219			Street Name:	
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):					

[Additional Detail\(s\) \(Map\)](#)

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well Completed Date: 2017/10/04 Year Completed: 2017 Depth (m): Latitude: 45.408429466738 Longitude: -75.7092478929541 Path:					
<u>Bore Hole Information</u>					
Bore Hole ID: 1006991990 DP2BR: Spatial Status: Code OB: Code OB Desc: Open Hole: Cluster Kind: Date Completed: 04-Oct-2017 00:00:00 Remarks: Elevrc Desc: Location Source Date: Improvement Location Source: Improvement Location Method: Source Revision Comment: Supplier Comment:					
Elevation: Elevrc: Zone: 18 East83: 444499.00 North83: 5028568.00 Org CS: UTM83 UTMRC: 4 UTMRC Desc: margin of error : 30 m - 100 m Location Method: wwr					
68	1 of 1	W/218.9	65.6 / -5.00	10278408 CANADA INC. 186 preston ottawa ON K1B 2P9	PES
Detail Licence No: Licence No: L-231-5038923500 Status: Active Approval Date: 2019-01-09 Report Source: PEST-General Vendor Licence Type: General Vendor Licence Type Code: Licence Class: Licence Control: Latitude: 45.14166667 Longitude: -76.16 Lot: Concession: Region: District: County: Trade Name: PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2116270 PDF Site Location:					
Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: Ottawa SWP Area Name: Mississippi Valley					
69	1 of 1	NNE/219.4	75.3 / 4.76	66 LEBRETON ST. N OTTAWA ON	WWIS
Well ID: 7261916 Construction Date: Primary Water Use: Monitoring Sec. Water Use: Final Well Status: Monitoring and Test Hole Water Type: Casing Material: Audit No: Z222256 Tag: A170505					
Data Entry Status: Data Src: Date Received: 4/25/2016 Selected Flag: True Abandonment Rec: Contractor: 7241 Form Version: 7 Owner: Street Name: 66 LEBRETON ST. N					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Construction Method: Elevation (m): Elevation Reliability: Depth to Bedrock: Well Depth: Overburden/Bedrock: Pump Rate: Static Water Level: Flowing (Y/N): Flow Rate: Clear/Cloudy:				County: OTTAWA Municipality: NEPEAN TOWNSHIP Site Info: Lot: Concession: Concession Name: Easting NAD83: Northing NAD83: Zone: UTM Reliability:	
PDF URL (Map):		https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/726\7261916.pdf			

Additional Detail(s) (Map)

Well Completed Date: 2016/04/08
Year Completed: 2016
Depth (m): 4.88
Latitude: 45.4084214182025
Longitude: -75.7090944440123
Path: 726\7261916.pdf

Bore Hole Information

Bore Hole ID:	1005937631	Elevation:	69.214164
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444511.00
Code OB Desc:		North83:	5028567.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	08-Apr-2016 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1006043439
Layer: 1
Color: 6
General Color: BROWN
Mat1: 28
Most Common Material: SAND
Mat2: 11
Mat2 Desc: GRAVEL
Mat3: 85
Mat3 Desc: SOFT
Formation Top Depth: 0.0
Formation End Depth: 1.2200000286102295
Formation End Depth UOM: m

Overburden and Bedrock

Materials Interval

Formation ID: 1006043441

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth:		2.130000114440918			
Formation End Depth:		4.880000114440918			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID:		1006043440			
Layer:		2			
Color:		2			
General Color:		GREY			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:		91			
Mat3 Desc:		WATER-BEARING			
Formation Top Depth:		1.2200000286102295			
Formation End Depth:		2.130000114440918			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043452			
Layer:		4			
Plug From:		2.44000005722046			
Plug To:		4.88000011444092			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043450			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		1.22000002861023			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043449			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1006043451			
Layer:		3			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug From:		1.22000002861023			
Plug To:		2.44000005722046			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1006043448			
Method Construction Code:		7			
Method Construction:		Diamond			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1006043438			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1006043446			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.44000005722046			
Screen End Depth:		4.88000011444092			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1006043444			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1006043443			
Diameter:		5.599999904632568			
Depth From:		2.440000057220459			
Depth To:		4.880000114440918			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1006043442			
Diameter:		8.0			
Depth From:		0.0			
Depth To:		2.440000057220459			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Order No:	20150725001			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Site Report			Client Prov/State:	ON
Report Date:	27-JUL-15			Search Radius (km):	.001
Date Received:	25-JUL-15			X:	-75.707867
Previous Site Name:				Y:	45.407989
Lot/Building Size:					
Additional Info Ordered:					

71	1 of 1	ESE/221.9	71.9 / 1.31	54 LAWSON ST Ottawa ON	WWIS
Well ID:	7239791			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	4/9/2015
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z201431			Owner:	
Tag:	A175664			Street Name:	54 LAWSON ST
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	OTTAWA CITY
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date: 2015/03/20
Year Completed: 2015
Depth (m): 9.14
Latitude: 45.4051393996024
Longitude: -75.7070855255306
Path:

Bore Hole Information

Bore Hole ID:	1005322480	Elevation:	69.653221
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444665.00
Code OB Desc:		North83:	5028201.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	20-Mar-2015 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005576426			
Layer:		2			
Color:		6			
General Color:		BROWN			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		01			
Mat2 Desc:		FILL			
Mat3:		85			
Mat3 Desc:		SOFT			
Formation Top Depth:		0.3100000023841858			
Formation End Depth:		1.519999809265137			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005576427			
Layer:		3			
Color:		2			
General Color:		GREY			
Mat1:		15			
Most Common Material:		LIMESTONE			
Mat2:		17			
Mat2 Desc:		SHALE			
Mat3:		74			
Mat3 Desc:		LAYERED			
Formation Top Depth:		1.519999809265137			
Formation End Depth:		9.140000343322754			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005576425			
Layer:		1			
Color:		8			
General Color:		BLACK			
Mat1:		11			
Most Common Material:		GRAVEL			
Mat2:		66			
Mat2 Desc:		DENSE			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		0.0			
Formation End Depth:		0.3100000023841858			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005576437			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		2.74000000953674			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Sealing Record</u>					
Plug ID:		1005576436			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment</u>					
<u>Sealing Record</u>					
Plug ID:		1005576438			
Layer:		3			
Plug From:		2.74000000953674			
Plug To:		9.14000034332275			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005576435			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005576424			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005576432			
Layer:		1			
Slot:		10			
Screen Top Depth:		3.09999990463257			
Screen End Depth:		9.14000034332275			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.82000017166138			
<u>Water Details</u>					
Water ID:		1005576430			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005576428			
Diameter:		11.430000305175781			
Depth From:		0.0			
Depth To:		1.8200000524520874			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
<u>Hole Diameter</u>					
Hole ID:		1005576429			
Diameter:		7.619999885559082			
Depth From:		1.8200000524520874			
Depth To:		9.140000343322754			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
72	1 of 1	ENE/222.1	74.7 / 4.15	Lots 22, 23, 25 and part of Lots 26 & 31, '13 and 25 Willow Street Ottawa ON	CA
Certificate #:		2472-5C7QVQ			
Application Year:		02			
Issue Date:		7/24/02			
Approval Type:		Municipal & Private sewage			
Status:		Approved			
Application Type:		New Certificate of Approval			
Client Name:		City of Ottawa Non-Profit Housing Corporation			
Client Address:		15 Holland Avenue			
Client City:		Ottawa			
Client Postal Code:		K1Y 4T2			
Project Description:		Storm, sanitary sewers and stormwater management facility to be constructed to serve 50 units in Bell & Willow City Living Project.			
Contaminants:					
Emission Control:					
73	1 of 1	ESE/223.6	71.0 / 0.44	PRIVATE RESIDENCE 457 BOOTH AVENUE FURNACE OIL TANK OTTAWA CITY ON K1R 7K9	SPL
Ref No:	123988			Discharger Report:	
Site No:				Material Group:	
Incident Dt:	//			Health/Env Conseq:	
Year:				Client Type:	
Incident Cause:	ABOVE-GROUND TANK LEAK			Sector Type:	
Incident Event:				Agency Involved:	
Contaminant Code:				Nearest Watercourse:	
Contaminant Name:				Site Address:	
Contaminant Limit 1:				Site District Office:	
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:				Site Region:	
Environment Impact:	CONFIRMED			Site Municipality:	20101
Nature of Impact:	Soil contamination			Site Lot:	
Receiving Medium:	LAND			Site Conc:	
Receiving Env:				Northing:	
MOE Response:				Easting:	MCCR
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	2/26/1996			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	
Incident Reason:	CORROSION			Source Type:	
Site Name:					
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:		PRIVATE RESIDENCE: 113 L FURNACE OIL TO SOIL FROM OUDOOR OIL TANK: MCCR			
Contaminant Qty:					
74	1 of 1	ESE/224.2	72.0 / 1.39	54 Louisa St	EHS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Ottawa ON K1R6Y8					
Order No:	20140624011			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Custom Report			Client Prov/State:	ON
Report Date:	27-JUN-14			Search Radius (km):	.25
Date Received:	24-JUN-14			X:	-75.707182
Previous Site Name:				Y:	45.404997
Lot/Building Size:					
Additional Info Ordered:					

75	1 of 1	ENE/224.3	74.9 / 4.31	Landsdown Developments Limited 18 willow St 18-20-22 Willow Street Lot 11 and Prt Lot 10, Reg. Plan No. 2545 Ottawa City Ottawa ON K1V 0R3	ECA
Approval No:	1361-5ZRHG3			MOE District:	
Approval Date:	2004-06-11			City:	
Status:	Approved			Longitude:	
Record Type:	ECA			Latitude:	
Link Source:	IDS			Geometry X:	
SWP Area Name:				Geometry Y:	
Approval Type:	ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS				
Project Type:	MUNICIPAL AND PRIVATE SEWAGE WORKS				
Business Name:	Landsdown Developments Limited				
Address:	18 willow St 18-20-22 Willow Street Lot 11 and Prt Lot 10, Reg. Plan No. 2545 Ottawa City				
Full Address:					
Full PDF Link:	https://www.accessenvironment.ene.gov.on.ca/instruments/1944-5X4T83-14.pdf				
PDF Site Location:					

76	1 of 1	ESE/224.4	71.0 / 0.44	51 LOUISA OTTAWA ON	WWIS
Well ID:	7226960			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	9/8/2014
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z188246			Owner:	
Tag:	A165746			Street Name:	51 LOUISA
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					
PDF URL (Map):	https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/722\7226960.pdf				
Additional Detail(s) (Map)					
Well Completed Date:	2014/07/25				
Year Completed:	2014				
Depth (m):	4.88				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Latitude:		45.4049404371173			
Longitude:		-75.7072363820902			
Path:		722\7226960.pdf			

Bore Hole Information

Bore Hole ID:	1005117989	Elevation:	68.613998
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444653.00
Code OB Desc:		North83:	5028179.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	25-Jul-2014 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1005328766
Layer:	1
Color:	8
General Color:	BLACK
Mat1:	11
Most Common Material:	GRAVEL
Mat2:	85
Mat2 Desc:	SOFT
Mat3:	
Mat3 Desc:	
Formation Top Depth:	0.0
Formation End Depth:	0.3100000023841858
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1005328767
Layer:	2
Color:	6
General Color:	BROWN
Mat1:	01
Most Common Material:	FILL
Mat2:	11
Mat2 Desc:	GRAVEL
Mat3:	85
Mat3 Desc:	SOFT
Formation Top Depth:	0.3100000023841858
Formation End Depth:	1.5
Formation End Depth UOM:	m

Overburden and Bedrock

Materials Interval

Formation ID:	1005328768
Layer:	3
Color:	2

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
General Color:		GREY			
Mat1:		17			
Most Common Material:		SHALE			
Mat2:					
Mat2 Desc:					
Mat3:		73			
Mat3 Desc:		HARD			
Formation Top Depth:		1.5			
Formation End Depth:		4.880000114440918			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005328779			
Layer:		2			
Plug From:		0.310000002384186			
Plug To:		1.5			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005328778			
Layer:		1			
Plug From:		0			
Plug To:		0.310000002384186			
Plug Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005328780			
Layer:		3			
Plug From:		1.5			
Plug To:		4.88000011444092			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005328777			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005328765			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005328774			
Layer:		1			
Slot:		10			
Screen Top Depth:		1.83000004291534			
Screen End Depth:		4.88000011444092			
Screen Material:		5			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1005328771			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005328770			
Diameter:		5.710000038146973			
Depth From:		1.2200000286102295			
Depth To:		4.880000114440918			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1005328769			
Diameter:		0.25			
Depth From:		0.0			
Depth To:		1.2200000286102295			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			

<u>77</u>	1 of 1	E/226.0	73.9 / 3.31	SAMIA BARAKE, MICHEL BARAKE 169 LEBRETON ST N OTTAWA ON K1R 7H7	EASR
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Approval No:	R-001-8609488231	SWP Area Name:	Rideau Valley
Status:	REGISTERED	MOE District:	Ottawa
Date:	2016-07-08	Municipality:	OTTAWA
Record Type:	EASR	Latitude:	45.40638889
Link Source:	MOFA	Longitude:	-75.70722222
Project Type:	Automotive Refinishing Facility	Geometry X:	
Full Address:		Geometry Y:	
Approval Type:	EASR-Automotive Refinishing Facility		
Full PDF Link:	http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2023024		
PDF URL:			
PDF Site Location:			

<u>78</u>	1 of 1	E/227.5	73.8 / 3.26	181 Lebreton St N Ottawa ON K1R7H7	EHS
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Order No:	20150225033	Nearest Intersection:	
Status:	C	Municipality:	
Report Type:	Custom Report	Client Prov/State:	ON
Report Date:	02-MAR-15	Search Radius (km):	.25
Date Received:	25-FEB-15	X:	-75.706626
Previous Site Name:		Y:	45.406021
Lot/Building Size:			
Additional Info Ordered:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
79	1 of 3	N/228.5	73.5 / 2.92	Cornerstone Housing for Women Foundation 314 Booth Street, Ottawa, ON CITY OF OTTAWA ON	PTTW
EBR Registry No: 010-8815 Ministry Ref No: 5632-7Z2NDQ Notice Type: Instrument Decision Notice Stage: Notice Date: November 26, 2014 Proposal Date: January 13, 2010 Year: 2010 Instrument Type: (OWRA s. 34) - Permit to Take Water Off Instrument Name: Posted By: Company Name: Cornerstone Housing for Women Foundation Site Address: Location Other: Proponent Name: Proponent Address: 172 O'Connor Street, Ottawa Ontario, Canada K2P 1T5 Comment Period: URL: Site Location Details: 314 Booth Street, Ottawa, ON CITY OF OTTAWA					
79	2 of 3	N/228.5	73.5 / 2.92	Cornerstone Housing for Women Foundation 314 BOOTH ST, OTTAWA, ON, K1R 7K2 ON K1R 7K2	RSC
RSC ID: 85515 RA No: RSC Type: Curr Property Use: Commercial Ministry District: OTTAWA Filing Date: 23-Aug-10 Date Ack: Date Returned: Restoration Type: Soil Type: Criteria: CPU Issued Sect 1686: No Asmt Roll No: Prop ID No (PIN): 04108-0142 (LT) Property Municipal Address: 314 BOOTH ST, OTTAWA, ON, K1R 7K2 Mailing Address: 172 O'CONNOR ST, OTTAWA, ON, K2P 1T5 Latitude & Latitude: 45.40858480N 75.71032330W (converted from UTM) UTM Coordinates: NAD83 18-444415-5028586 Consultant: Legal Desc: Lots 18, 19 & 25, PL 55; PT LT 17, PL 55, AS IN N601963; OTTAWA/NEPEAN Measurement Method: Digitized from a satellite image Applicable Standards: ESA Phase 1 RSC PDF: Cert Date: 28-Sep-09 Cert Prop Use No: No CPU Intended Prop Use: Residential Qual Person Name: Sue Garvey Stratified (Y/N): Audit (Y/N): Entire Leg Prop. (Y/N): Yes Accuracy Estimate: 6 to 10 meters Telephone: 613-2374669x1 Fax: 613-2375659 Email: sue.garvey@cornerstonewomen.ca					
79	3 of 3	N/228.5	73.5 / 2.92	Cornerstone Housing for Women Foundation 314 BOOTH STREET OTTAWA ON K1R 7K2	GEN
Generator No: ON5586022 SIC Code: 236110 SIC Description: Residential Building Construction Status: Co Admin: Choice of Contact:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Approval Years: 2010 PO Box No: Country:				Phone No Admin: Contam. Facility: MHSW Facility:	
Detail(s)					
Waste Class: 146					
Waste Class Desc: OTHER SPECIFIED INORGANICS					
Waste Class: 243					
Waste Class Desc: PCBS					
Waste Class: 252					
Waste Class Desc: WASTE OILS & LUBRICANTS					
80	1 of 2	WNW/231.9	66.9 / -3.69	Bridgehead (2000) Inc. 130 Anderson Street Ottawa K1R 6T7 CITY OF OTTAWA ON	EBR
EBR Registry No: 012-1133				Decision Posted:	
Ministry Ref No: 9800-9FDQHL				Exception Posted:	
Notice Type: Instrument Decision				Section:	
Notice Stage:				Act 1:	
Notice Date: August 04, 2016				Act 2:	
Proposal Date: February 21, 2014				Site Location Map:	
Year: 2014					
Instrument Type: (EPA Part II.1-air) - Environmental Compliance Approval (project type: air)					
Off Instrument Name:					
Posted By:					
Company Name: Bridgehead (2000) Inc.					
Site Address:					
Location Other:					
Proponent Name:					
Proponent Address: 130 Anderson Street, Ottawa Ontario, Canada K1R 6T7					
Comment Period:					
URL:					
Site Location Details:					
130 Anderson Street Ottawa K1R 6T7 CITY OF OTTAWA					
80	2 of 2	WNW/231.9	66.9 / -3.69	BRIDGEHEAD (2000) INC. 130 Anderson ST Ottawa ON K1R 6T7	EASR
Approval No: R-010-4112868817				SWP Area Name:	
Status: REGISTERED				MOE District:	
Date: 2021-01-26				Municipality: Ottawa	
Record Type: EASR				Latitude:	
Link Source: MOFA				Longitude:	
Project Type: Air Emissions				Geometry X:	
Full Address:				Geometry Y:	
Approval Type: EASR-Air Emissions					
Full PDF Link: http://www.accessenvironment.ene.gov.on.ca/AEWeb/ae/ViewDocument.action?documentRefID=2332788					
PDF URL:					
PDF Site Location:					
81	1 of 1	ENE/232.4	74.9 / 4.31		BORE

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
ON					
Borehole ID:	613155			Inclin FLG:	No
OGF ID:	215514459			SP Status:	Initial Entry
Status:				Surv Elev:	No
Type:	Borehole			Piezometer:	No
Use:				Primary Name:	
Completion Date:	JAN-1965			Municipality:	
Static Water Level:				Lot:	
Primary Water Use:				Township:	
Sec. Water Use:				Latitude DD:	45.406952
Total Depth m:	-999			Longitude DD:	-75.70678
Depth Ref:	Ground Surface			UTM Zone:	18
Depth Elev:				Easting:	444691
Drill Method:				Northing:	5028402
Orig Ground Elev m:	71.2			Location Accuracy:	
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m:	71.2				
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218393939			Mat Consistency:	Dense
Top Depth:	1.4			Material Moisture:	
Bottom Depth:				Material Texture:	Fibrous
Material Color:				Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:	Shale			Geologic Period:	
Material 4:				Depositional Gen:	organic
Gsc Material Description:					
Stratum Description:	BEDROCK. FIBROUS. ORGANIC. UNSPECIFIED. DENSE. UNSPECIFIED. DENSE. UNSPECIFIED. DENSE.				
Geology Stratum ID:	218393938			Mat Consistency:	Compact
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.4			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Sand			Geologic Formation:	
Material 2:	Silt			Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:	SAND. BROWN,COMPACT.				
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 056630 NTS_Sheet: 31G05G				
Confiden 1:					
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Scale or Resolution: Varies					
Source Name: Urban Geology Automated Information System (UGAIS)					
Source Originators: Geological Survey of Canada					

82	1 of 1	WNW/232.8	66.6 / -4.00	173-177 PRESTON ST Ottawa ON	WWIS
Well ID:		7230092		Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:		Monitoring		Date Received: 10/24/2014	
Sec. Water Use:				Selected Flag: True	
Final Well Status:		Observation Wells		Abandonment Rec:	
Water Type:				Contractor: 1844	
Casing Material:				Form Version: 7	
Audit No:		Z180596		Owner:	
Tag:		A153936		Street Name: 173-177 PRESTON ST	
Construction Method:				County: OTTAWA	
Elevation (m):				Municipality: OTTAWA CITY	
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map):

Additional Detail(s) (Map)

Well Completed Date:	2014/01/17
Year Completed:	2014
Depth (m):	8.5
Latitude:	45.4071184352754
Longitude:	-75.7130778811063
Path:	

Bore Hole Information

Bore Hole ID:	1005178385	Elevation:	58.334548
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444198.00
Code OB Desc:		North83:	5028425.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	17-Jan-2014 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID:	1005361706
Layer:	6

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Color:					
General Color:					
Mat1:					
Most Common Material:					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth: 7.199999809265137					
Formation End Depth: 8.5					
Formation End Depth UOM: m					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 1005361703					
Layer: 3					
Color: 6					
General Color: BROWN					
Mat1: 06					
Most Common Material: SILT					
Mat2: 28					
Mat2 Desc: SAND					
Mat3: 01					
Mat3 Desc: FILL					
Formation Top Depth: 1.0099999904632568					
Formation End Depth: 1.600000023841858					
Formation End Depth UOM: m					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 1005361701					
Layer: 1					
Color:					
General Color:					
Mat1: 27					
Most Common Material: OTHER					
Mat2:					
Mat2 Desc:					
Mat3:					
Mat3 Desc:					
Formation Top Depth: 0.0					
Formation End Depth: 0.05000000074505806					
Formation End Depth UOM: m					
<u>Overburden and Bedrock</u>					
<u>Materials Interval</u>					
Formation ID: 1005361702					
Layer: 2					
Color: 6					
General Color: BROWN					
Mat1: 01					
Most Common Material: FILL					
Mat2: 15					
Mat2 Desc: LIMESTONE					
Mat3: 28					
Mat3 Desc: SAND					
Formation Top Depth: 0.05000000074505806					
Formation End Depth: 1.0099999904632568					
Formation End Depth UOM: m					

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction/ Distance (m)</i>	<i>Elev/Diff (m)</i>	<i>Site</i>	<i>DB</i>
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005361704			
Layer:		4			
Color:		6			
General Color:		BROWN			
Mat1:		06			
Most Common Material:		SILT			
Mat2:		28			
Mat2 Desc:		SAND			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		1.600000023841858			
Formation End Depth:		3.9000000953674316			
Formation End Depth UOM:		m			
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:		1005361705			
Layer:		5			
Color:		7			
General Color:		RED			
Mat1:		28			
Most Common Material:		SAND			
Mat2:		29			
Mat2 Desc:		FINE GRAVEL			
Mat3:					
Mat3 Desc:					
Formation Top Depth:		3.9000000953674316			
Formation End Depth:		7.199999809265137			
Formation End Depth UOM:		m			
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:		1005361713			
Layer:		1			
Plug From:		0.300000011920929			
Plug To:		0.600000023841858			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005361712			
Method Construction Code:		B			
Method Construction:		Other Method			
Other Method Construction:		HSA			
<u>Pipe Information</u>					
Pipe ID:		1005361700			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005361710			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Layer: 1 Slot: 10 Screen Top Depth: 3 Screen End Depth: 6 Screen Material: 5 Screen Depth UOM: m Screen Diameter UOM: cm Screen Diameter: 3.89000010490417					
<u>Water Details</u>					
Water ID: 1005361708 Layer: 1 Kind Code: 8 Kind: Untested Water Found Depth: 4.449999809265137 Water Found Depth UOM: m					
<u>Hole Diameter</u>					
Hole ID: 1005361707 Diameter: 20.299999237060547 Depth From: 0.0 Depth To: 8.5 Hole Depth UOM: m Hole Diameter UOM: cm					
<u>83</u>	1 of 1	W/233.5	65.9 / -4.66	Preston St & Laurel St Ottawa On Ottawa ON	EHS
Order No: 20150115029 Status: C Report Type: RSC Report (Urban) Report Date: 21-JAN-15 Date Received: 15-JAN-15 Previous Site Name: Lot/Building Size: Additional Info Ordered: Title Searches					
Nearest Intersection: Municipality: Ottawa Client Prov/State: ON Search Radius (km): .3 X: -75.713306 Y: 45.406385					
<u>84</u>	1 of 1	W/234.6	65.8 / -4.79	170 Preston Street Ltd. 170 Preston St Ottawa ON K1R 7H9	ECA
Approval No: 4185-A9VUFZ Approval Date: 2016-06-06 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name:					
MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:					
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: 170 Preston Street Ltd. Address: 170 Preston St Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/8755-9ZGR7Q-14.pdf PDF Site Location:					
<u>85</u>	1 of 1	ESE/236.0	72.0 / 1.39	411 ARLINFTON RD. OTTAWA ON	WWIS

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Well ID:	7226959			Data Entry Status:	
Construction Date:				Data Src:	
Primary Water Use:	Monitoring and Test Hole			Date Received:	9/8/2014
Sec. Water Use:	0			Selected Flag:	True
Final Well Status:	Test Hole			Abandonment Rec:	
Water Type:				Contractor:	7241
Casing Material:				Form Version:	7
Audit No:	Z188247			Owner:	
Tag:	A164745			Street Name:	411 ARLINGTON RD.
Construction Method:				County:	OTTAWA
Elevation (m):				Municipality:	NEPEAN TOWNSHIP
Elevation Reliability:				Site Info:	
Depth to Bedrock:				Lot:	
Well Depth:				Concession:	
Overburden/Bedrock:				Concession Name:	
Pump Rate:				Easting NAD83:	
Static Water Level:				Northing NAD83:	
Flowing (Y/N):				Zone:	
Flow Rate:				UTM Reliability:	
Clear/Cloudy:					

PDF URL (Map): https://d2khazk8e83rdv.cloudfront.net/moe_mapping/downloads/2Water/Wells_pdfs/722\7226959.pdf

Additional Detail(s) (Map)

Well Completed Date: 2014/07/25
Year Completed: 2014
Depth (m): 5.49
Latitude: 45.4047965857567
Longitude: -75.7072090306463
Path: 722\7226959.pdf

Bore Hole Information

Bore Hole ID:	1005117986	Elevation:	68.459129
DP2BR:		Elevrc:	
Spatial Status:		Zone:	18
Code OB:		East83:	444655.00
Code OB Desc:		North83:	5028163.00
Open Hole:		Org CS:	UTM83
Cluster Kind:		UTMRC:	4
Date Completed:	25-Jul-2014 00:00:00	UTMRC Desc:	margin of error : 30 m - 100 m
Remarks:		Location Method:	wwr
Elevrc Desc:			
Location Source Date:			
Improvement Location Source:			
Improvement Location Method:			
Source Revision Comment:			
Supplier Comment:			

Overburden and Bedrock

Materials Interval

Formation ID: 1005328751
Layer: 1
Color: 8
General Color: BLACK
Mat1: 11
Most Common Material: GRAVEL
Mat2: 85
Mat2 Desc: SOFT
Mat3:
Mat3 Desc:

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Formation Top Depth:			0.0		
Formation End Depth:			0.3100000023841858		
Formation End Depth UOM:			m		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			1005328752		
Layer:			2		
Color:			6		
General Color:			BROWN		
Mat1:			01		
Most Common Material:			FILL		
Mat2:			11		
Mat2 Desc:			GRAVEL		
Mat3:			85		
Mat3 Desc:			SOFT		
Formation Top Depth:			0.3100000023841858		
Formation End Depth:			1.5		
Formation End Depth UOM:			m		
<u>Overburden and Bedrock Materials Interval</u>					
Formation ID:			1005328753		
Layer:			3		
Color:			2		
General Color:			GREY		
Mat1:			17		
Most Common Material:			SHALE		
Mat2:					
Mat2 Desc:					
Mat3:			73		
Mat3 Desc:			HARD		
Formation Top Depth:			1.5		
Formation End Depth:			5.489999771118164		
Formation End Depth UOM:			m		
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:			1005328763		
Layer:			2		
Plug From:			0.310000002384186		
Plug To:			2.13000011444092		
Plug Depth UOM:			m		
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:			1005328762		
Layer:			1		
Plug From:			0		
Plug To:			0.310000002384186		
Plug Depth UOM:			m		
<u>Annular Space/Abandonment Sealing Record</u>					
Plug ID:			1005328764		
Layer:			3		
Plug From:			2.13000011444092		

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Plug To:		5.4899977111816			
Plug Depth UOM:		m			
<u>Method of Construction & Well Use</u>					
Method Construction ID:		1005328761			
Method Construction Code:		D			
Method Construction:		Direct Push			
Other Method Construction:					
<u>Pipe Information</u>					
Pipe ID:		1005328750			
Casing No:		0			
Comment:					
Alt Name:					
<u>Construction Record - Screen</u>					
Screen ID:		1005328758			
Layer:		1			
Slot:		10			
Screen Top Depth:		2.44000005722046			
Screen End Depth:		5.4899977111816			
Screen Material:		5			
Screen Depth UOM:		m			
Screen Diameter UOM:		cm			
Screen Diameter:		4.21000003814697			
<u>Water Details</u>					
Water ID:		1005328756			
Layer:					
Kind Code:					
Kind:					
Water Found Depth:					
Water Found Depth UOM:		m			
<u>Hole Diameter</u>					
Hole ID:		1005328755			
Diameter:		5.710000038146973			
Depth From:		1.5			
Depth To:		5.48999771118164			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
<u>Hole Diameter</u>					
Hole ID:		1005328754			
Diameter:		8.25			
Depth From:		0.0			
Depth To:		1.5			
Hole Depth UOM:		m			
Hole Diameter UOM:		cm			
86	1 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE (1980) LIMITED 234-248 PRESTON STREET OTTAWA ON K1R 7R4	PES

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Detail Licence No:	23-01-10903-0			Operator Box:	
Licence No:	10903			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:	Limited Vendor			Oper Phone No:	
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:	0			Oper Concession:	
Latitude:				Operator Region:	4
Longitude:				Operator District:	2
Lot:				Operator County:	15
Concession:				Op Municipality:	
Region:	4			Post Office Box:	
District:	2			MOE District:	
County:	15			SWP Area Name:	
Trade Name:					
PDF Link:					
PDF Site Location:					

86	2 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE 1980 LIMITED 248 PRESTON ST OTTAWA ON K1R 7R4	PES
Detail Licence No:	23-01-12318-0			Operator Box:	
Licence No:	12318			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:	Limited Vendor			Oper Phone No:	
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:	0			Oper Concession:	
Latitude:				Operator Region:	4
Longitude:				Operator District:	
Lot:				Operator County:	15
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
PDF Site Location:					

86	3 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE (1980) LIMITED 234-248 PRESTON ST OTTAWA ON K1R 7R4	PES
Detail Licence No:				Operator Box:	
Licence No:				Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:				Oper Area Code:	
Licence Type:	Limited Vendor			Oper Phone No:	
Licence Type Code:	23			Operator Ext:	
Licence Class:				Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	
Longitude:				Operator District:	
Lot:				Operator County:	
Concession:				Op Municipality:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Region: District: County: Trade Name: PDF Link: PDF Site Location:				Post Office Box: MOE District: SWP Area Name:	
86	4 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE (1980) LIMITED 234-248 PRESTON ST OTTAWA ON K1R 7R4	PES
Detail Licence No: Licence No: Status: Approval Date: Report Source: Licence Type: Vendor Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link: PDF Site Location:				Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	
86	5 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE 1980 LIMITED 248 PRESTON ST OTTAWA ON K1R 7R4	PES
Detail Licence No: Licence No: Status: Approval Date: Report Source: Licence Type: Vendor Licence Type Code: Licence Class: Licence Control: Latitude: Longitude: Lot: Concession: Region: District: County: Trade Name: PDF Link: PDF Site Location:				Operator Box: Operator Class: Operator No: Operator Type: Oper Area Code: Oper Phone No: Operator Ext: Operator Lot: Oper Concession: Operator Region: Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	
86	6 of 11	WSW/238.8	66.0 / -4.61	Preston Hardware (1980) Limited 234-248 Preston Street Ottawa ON K1R 7R4	CA
Certificate #:		3131-63XLJC			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Application Year:		2004			
Issue Date:		8/19/2004			
Approval Type:		Municipal and Private Sewage Works			
Status:		Approved			
Application Type:					
Client Name:					
Client Address:					
Client City:					
Client Postal Code:					
Project Description:					
Contaminants:					
Emission Control:					

86	7 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE 1980 LIMITED 248 PRESTON ST OTTAWA ON K1R7R4	PES
Detail Licence No:				Operator Box:	
Licence No:		12318		Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:		Legacy Licenses (Excluding TS)		Oper Area Code:	613
Licence Type:		Limited Vendor		Oper Phone No:	2307166
Licence Type Code:		23		Operator Ext:	
Licence Class:		01		Operator Lot:	
Licence Control:		0		Oper Concession:	
Latitude:				Operator Region:	4
Longitude:				Operator District:	
Lot:				Operator County:	15
Concession:				Op Municipality:	
Region:				Post Office Box:	
District:				MOE District:	
County:				SWP Area Name:	
Trade Name:					
PDF Link:					
PDF Site Location:					

86	8 of 11	WSW/238.8	66.0 / -4.61	Preston Hardware (1980) Limited 234-248 Preston Street Ottawa ON K1R 7R4	ECA
Approval No:		3131-63XLJC		MOE District:	Ottawa
Approval Date:		2004-08-19		City:	
Status:		Approved		Longitude:	-75.71224
Record Type:		ECA		Latitude:	45.40498
Link Source:		IDS		Geometry X:	
SWP Area Name:		Rideau Valley		Geometry Y:	
Approval Type:		ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS			
Project Type:		MUNICIPAL AND PRIVATE SEWAGE WORKS			
Business Name:		Preston Hardware (1980) Limited			
Address:		234-248 Preston Street			
Full Address:					
Full PDF Link:		https://www.accessenvironment.ene.gov.on.ca/instruments/8327-62PS45-14.pdf			
PDF Site Location:					

86	9 of 11	WSW/238.8	66.0 / -4.61	248 Preston Street Ottawa ON	SPL
Ref No:		2660-ASCFNV		Discharger Report:	
Site No:		NA		Material Group:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Incident Dt:	2017/10/20			Health/Env Conseq:	2 - Minor Environment
Year:				Client Type:	
Incident Cause:				Sector Type:	Unknown / N/A
Incident Event:	Unknown / N/A			Agency Involved:	
Contaminant Code:	27			Nearest Watercourse:	
Contaminant Name:	PAINT (WATER-BASED)			Site Address:	248 Preston Street
Contaminant Limit 1:				Site District Office:	Ottawa
Contam Limit Freq 1:				Site Postal Code:	
Contaminant UN No 1:	1263			Site Region:	Eastern
Environment Impact:				Site Municipality:	Ottawa
Nature of Impact:				Site Lot:	
Receiving Medium:				Site Conc:	
Receiving Env:	Land			Northing:	5028165
MOE Response:	No			Easting:	444270
Dt MOE Arvl on Scn:				Site Geo Ref Accu:	
MOE Reported Dt:	2017/10/21			Site Map Datum:	
Dt Document Closed:				SAC Action Class:	Watercourse Spills
Incident Reason:	Unknown / N/A			Source Type:	Unknown / N/A
Site Name:	CB<UNOFFICIAL>				
Site County/District:					
Site Geo Ref Meth:					
Incident Summary:	Drain All: Paint to two catch basins; cleaned				
Contaminant Qty:	0 other - see incident description				

86	10 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE (1980) LIMITED 234-248 PRESTON ST OTTAWA ON K1R7R4	PES
Detail Licence No:	23-01-10903-0			Operator Box:	
Licence No:	10903			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)			Oper Area Code:	613
Licence Type:	Limited Vendor			Oper Phone No:	2307166
Licence Type Code:	23			Operator Ext:	
Licence Class:	01			Operator Lot:	
Licence Control:	0			Oper Concession:	
Latitude:				Operator Region:	4
Longitude:				Operator District:	2
Lot:				Operator County:	15
Concession:				Op Municipality:	
Region:	4			Post Office Box:	
District:	2			MOE District:	
County:	15			SWP Area Name:	
Trade Name:					
PDF Link:					
PDF Site Location:					

86	11 of 11	WSW/238.8	66.0 / -4.61	PRESTON HARDWARE (1980) LIMITED 234-248 PRESTON ST OTTAWA ON K1R7R4	PES
Detail Licence No:				Operator Box:	
Licence No:	10903			Operator Class:	
Status:				Operator No:	
Approval Date:				Operator Type:	
Report Source:	Legacy Licenses (Excluding TS)			Oper Area Code:	613
Licence Type:	Retail Vendor Class 03			Oper Phone No:	2307166
Licence Type Code:	21			Operator Ext:	
Licence Class:	03			Operator Lot:	
Licence Control:				Oper Concession:	
Latitude:				Operator Region:	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Longititude: Lot: Concession: Region: District: County: Trade Name: PDF Link: PDF Site Location:				Operator District: Operator County: Op Municipality: Post Office Box: MOE District: SWP Area Name:	
87	1 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No: 20191217017 Status: C Report Type: Standard Report Report Date: 20-DEC-19 Date Received: 17-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: City Directory				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7108214 Y: 45.4085124	
87	2 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No: 20191217017 Status: C Report Type: Standard Report Report Date: 20-DEC-19 Date Received: 17-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: City Directory				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7108214 Y: 45.4085124	
87	3 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No: 20191217017 Status: C Report Type: Standard Report Report Date: 20-DEC-19 Date Received: 17-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: City Directory				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7108214 Y: 45.4085124	
87	4 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No: 20191217017 Status: C Report Type: Standard Report Report Date: 20-DEC-19 Date Received: 17-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: City Directory				Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7108214 Y: 45.4085124	

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
87	5 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No:	20191217017			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	20-DEC-19			Search Radius (km):	.25
Date Received:	17-DEC-19			X:	-75.7108214
Previous Site Name:				Y:	45.4085124
Lot/Building Size:					
Additional Info Ordered:	City Directory				
87	6 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No:	20191217017			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	20-DEC-19			Search Radius (km):	.25
Date Received:	17-DEC-19			X:	-75.7108214
Previous Site Name:				Y:	45.4085124
Lot/Building Size:					
Additional Info Ordered:	City Directory				
87	7 of 7	NNW/239.5	73.4 / 2.79	82-84 Eccles Street Ottawa ON K1R 6S6	EHS
Order No:	20191217017			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	20-DEC-19			Search Radius (km):	.25
Date Received:	17-DEC-19			X:	-75.7108214
Previous Site Name:				Y:	45.4085124
Lot/Building Size:					
Additional Info Ordered:	City Directory				
88	1 of 1	NNE/239.8	75.9 / 5.31	44 Eccles St Ottawa ON K1R6S4	EHS
Order No:	20160906060			Nearest Intersection:	
Status:	C			Municipality:	Ottawa
Report Type:	RSC Report (Urban)			Client Prov/State:	ON
Report Date:	13-SEP-16			Search Radius (km):	.3
Date Received:	06-SEP-16			X:	-75.709297
Previous Site Name:				Y:	45.408635
Lot/Building Size:	0.64 Acres				
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans; Title Searches				
89	1 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25
Date Received:	09-DEC-19			X:	-75.7087642
Previous Site Name:				Y:	45.4085651
Lot/Building Size:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Additional Info Ordered:		Fire Insur. Maps and/or Site Plans			
89	2 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25
Date Received:	09-DEC-19			X:	-75.7087642
Previous Site Name:				Y:	45.4085651
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
89	3 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25
Date Received:	09-DEC-19			X:	-75.7087642
Previous Site Name:				Y:	45.4085651
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
89	4 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25
Date Received:	09-DEC-19			X:	-75.7087642
Previous Site Name:				Y:	45.4085651
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
89	5 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25
Date Received:	09-DEC-19			X:	-75.7087642
Previous Site Name:				Y:	45.4085651
Lot/Building Size:					
Additional Info Ordered:	Fire Insur. Maps and/or Site Plans				
89	6 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No:	20191209089			Nearest Intersection:	
Status:	C			Municipality:	
Report Type:	Standard Report			Client Prov/State:	ON
Report Date:	12-DEC-19			Search Radius (km):	.25

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Date Received: 09-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans					
89	7 of 7	NNE/241.8	75.6 / 5.00	60A Lebreton St N Ottawa ON Ottawa ON K1R 7H4	EHS
Order No: 20191209089 Status: C Report Type: Standard Report Report Date: 12-DEC-19 Date Received: 09-DEC-19 Previous Site Name: Lot/Building Size: Additional Info Ordered: Fire Insur. Maps and/or Site Plans					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: -75.7087642 Y: 45.4085651					
<hr/>					
90	1 of 1	N/245.7	74.9 / 4.31	314 Booth Street Ottawa ON K1R 7K2	EHS
Order No: 20090817046 Status: C Report Type: Standard Report Report Date: 8/26/2009 Date Received: 8/17/2009 Previous Site Name: Lot/Building Size: 13,500 square foot property area Additional Info Ordered: Fire Insur. Maps and/or Site Plans					
Nearest Intersection: Booth Street and Eccles Street Municipality: Ottawa Client Prov/State: ON Search Radius (km): 0.25 X: -75.710271 Y: 45.408677					
<hr/>					
91	1 of 1	E/245.8	73.0 / 2.44	23 Louisa St Ottawa ON	EHS
Order No: 20130404009 Status: C Report Type: Custom Report Report Date: 05-APR-13 Date Received: 04-APR-13 Previous Site Name: Lot/Building Size: Additional Info Ordered:					
Nearest Intersection: Municipality: Client Prov/State: ON Search Radius (km): .25 X: 0 Y: 0					
<hr/>					
92	1 of 2	SE/245.8	70.9 / 0.34	Campbell, Tony John 434-436 Arlington Avenue, 469 Booth Street Ottawa ON	CA
Certificate #: 8488-63WL4D Application Year: 2004 Issue Date: 8/17/2004 Approval Type: Municipal and Private Sewage Works Status: Approved Application Type: Client Name: Client Address: Client City: Client Postal Code: Project Description: Contaminants: Emission Control:					

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
92	2 of 2	SE/245.8	70.9 / 0.34	Campbell, Tony John 469 Booth St 434- 436 Arlington Avenue Ottawa ON K1S 4M7	ECA
Approval No: 8488-63WL4D Approval Date: 2004-08-17 Status: Approved Record Type: ECA Link Source: IDS SWP Area Name: Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS Business Name: Campbell, Tony John Address: 469 Booth St 434- 436 Arlington Avenue Full Address: Full PDF Link: https://www.accessenvironment.ene.gov.on.ca/instruments/2390-62QH4L-14.pdf PDF Site Location:		MOE District: City: Longitude: Latitude: Geometry X: Geometry Y:			
93	1 of 2	WNW/247.0	66.6 / -4.00	153-157 Preston Road aka 130 Anderson St. Ottawa ON K1R 7P6	EHS
Order No: 20030326002 Status: C Report Type: Complete Report Report Date: 4/3/03 Date Received: 3/26/03 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Anderson St. Municipality: Client Prov/State: CO Search Radius (km): 0.25 X: -75.71328 Y: 45.407261			
93	2 of 2	WNW/247.0	66.6 / -4.00	153-157 Preston Street Ottawa ON K1R 7P6	EHS
Order No: 20031201013 Status: C Report Type: Complete Report Report Date: 12/10/03 Date Received: 12/1/03 Previous Site Name: Lot/Building Size: Additional Info Ordered:		Nearest Intersection: Poplar Street Municipality: Client Prov/State: ON Search Radius (km): 0.25 X: -75.713236 Y: 45.407274			
94	1 of 1	NW/248.9	71.2 / 0.63	ON	BORE
Borehole ID: 613180 OGF ID: 215514483 Status: Type: Borehole Use: Completion Date: FEB-1965 Static Water Level: Primary Water Use: Sec. Water Use: Total Depth m: -999 Depth Ref: Ground Surface Depth Elev: Drill Method: Orig Ground Elev m: 67.2		Inclin FLG: No SP Status: Initial Entry Surv Elev: No Piezometer: No Primary Name: Municipality: Lot: Township: Latitude DD: 45.408362 Longitude DD: -75.711654 UTM Zone: 18 Easting: 444311 Northing: 5028562 Location Accuracy:			

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
Elev Reliabil Note:				Accuracy:	Not Applicable
DEM Ground Elev m: 67.3					
Concession:					
Location D:					
Survey D:					
Comments:					
<u>Borehole Geology Stratum</u>					
Geology Stratum ID:	218394042			Mat Consistency:	Soft
Top Depth:	1.6			Material Moisture:	
Bottom Depth:				Material Texture:	
Material Color:	Grey			Non Geo Mat Type:	
Material 1:	Bedrock			Geologic Formation:	
Material 2:	Limestone			Geologic Group:	
Material 3:	Shale			Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		BEDROCK. GREY,FRACTURED. F,FISSURED. CLAY. GREY,SOFT. CLAY. GREY,STIFF,FISSURED. SILT. DE			
**Note: Many records provided by the department have a truncated [Stratum Description] field.					
Geology Stratum ID:	218394040			Mat Consistency:	Hard
Top Depth:	0			Material Moisture:	
Bottom Depth:	1.1			Material Texture:	
Material Color:				Non Geo Mat Type:	
Material 1:	Fill			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	fill
Gsc Material Description:					
Stratum Description:		FILL. HARD.			
Geology Stratum ID:	218394041			Mat Consistency:	Hard
Top Depth:	1.1			Material Moisture:	
Bottom Depth:	1.6			Material Texture:	
Material Color:	Brown			Non Geo Mat Type:	
Material 1:	Till			Geologic Formation:	
Material 2:				Geologic Group:	
Material 3:				Geologic Period:	
Material 4:				Depositional Gen:	
Gsc Material Description:					
Stratum Description:		TILL. BROWN,HARD.			
<u>Source</u>					
Source Type:	Data Survey			Source Appl:	Spatial/Tabular
Source Orig:	Geological Survey of Canada			Source Iden:	1
Source Date:	1956-1972			Scale or Res:	Varies
Confidence:				Horizontal:	NAD27
Observatio:				Verticalda:	Mean Average Sea Level
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Details:	File: OTTAWA2.txt RecordID: 056880 NTS_Sheet: 31G05G				
Confiden 1:					
<u>Source List</u>					
Source Identifier:	1			Horizontal Datum:	NAD27
Source Type:	Data Survey			Vertical Datum:	Mean Average Sea Level
Source Date:	1956-1972			Projection Name:	Universal Transverse Mercator
Scale or Resolution:	Varies				
Source Name:	Urban Geology Automated Information System (UGAIS)				
Source Originators:	Geological Survey of Canada				

Map Key	Number of Records	Direction/ Distance (m)	Elev/Diff (m)	Site	DB
95	1 of 2	SW/249.4	65.9 / -4.69	GREAT CANADIAN THEATRE COMPANY, THE 910 GLADSTONE AVENUE OTTAWA ON K1R 6Y3	GEN
Generator No:	ON2272500			Status:	
SIC Code:	9631			Co Admin:	
SIC Description:	ENTER. PROD. CO./ART.			Choice of Contact:	
Approval Years:	97,98,99,00,01			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	
<u>Detail(s)</u>					
Waste Class:	145				
Waste Class Desc:	PAINT/PIGMENT/COATING RESIDUES				
Waste Class:	331				
Waste Class Desc:	WASTE COMPRESSED GASES				

95	2 of 2	SW/249.4	65.9 / -4.69	Great Canadian Theatre Company 910 Gladstone Ottawa ON K1R 6Y4	GEN
Generator No:	ON8458399			Status:	
SIC Code:	711190			Co Admin:	
SIC Description:	Other Performing Arts Companies			Choice of Contact:	
Approval Years:	04			Phone No Admin:	
PO Box No:				Contam. Facility:	
Country:				MHSW Facility:	

Unplottable Summary

Total: 27 Unplottable sites

DB	Company Name/Site Name	Address	City	Postal
CA	SAKTO DEVELOPMENTS	PRESTON ST. QUEENSWAY CENTRE	OTTAWA CITY ON	
CA	City of Ottawa	Balsam Street	Ottawa ON	
CA	City of Ottawa	Gladstone Avenue	Ottawa ON	
CA		Willow, Lebreton, Raymond, Louisa, Bell, Eccles St.; Gladstone Ave.	Ottawa ON	
CA		Gladstone Avenue	Ottawa ON	
CA		Willow, Booth Bell, Arthur, Cambridge Streets	Ottawa ON	
CA		Gladstone Avenue	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	BOOTH ST./LEBRETON ST.	OTTAWA CITY ON	
CA	OTTAWA CITY, DESIGN & CONSTRUCTION DIV.	BOOTH ST./LEBRETON ST. CSO	OTTAWA CITY ON	
CA	City of Ottawa	Gladstone Avenue	Ottawa ON	
CA	City of Ottawa	Larch Street and Laurel Street	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	ARLINGTON AVE.	OTTAWA CITY ON	
CA	City of Ottawa	Preston Street	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON	ARLINGTON STREET	OTTAWA CITY ON	
CA	City of Ottawa	Gladstone Avenue	Ottawa ON	
CA	R.M. OF OTTAWA-CARLETON TRANSPORTATION	BOOTH ST.	OTTAWA CITY ON	
ECA	City of Ottawa	Gladstone Ave	Ottawa ON	K2G 6J8

ECA	SNC-Lavalin Constructors (Pacific) Inc., Dragados Canada, Inc. and EllisDon	Corporation operating as OLRT Constructors Booth St	Ottawa ON	K1Z 1G3
ECA	City of Ottawa	Larch Street and Laurel Street	Ottawa ON	K1P 1J1
ECA	The Corporation of the City of Ottawa	Willow St Booth, Bell, Arthur, Cambridge Streets	Ottawa ON	K1N 5A1
SPL		on Booth Street	Ottawa ON	
SPL		LEBRETTON ST BETWEEN GLADSTONE AND SUMMERSET<UNOFFICIAL>	Ottawa ON	
SPL	OTTAWA-CARLETON, R.M. OF	OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM	OTTAWA CITY ON	
SPL	OTTAWA-CARLETON, R.M. OF	BOOTH ST GATE SANITARY SEWER SYSTEM	OTTAWA CITY ON	
SPL	TOP VALU	PRESTON STREET, SOUTH OF GLADSTONE SERVICE STATION	OTTAWA-CARLETON R. M. ON	
SPL	City of Ottawa	Booth Street	Ottawa ON	
SPL	OTTAWA-CARLETON, R.M. OF	ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETTON MOTOR VEHICLE (OPERATING FLUID)	OTTAWA CITY ON	

Unplottable Report

Site: SAKTO DEVELOPMENTS
PRESTON ST. QUEENSWAY CENTRE OTTAWA CITY ON

Database:
CA

Certificate #: 7-1268-88-
Application Year: 88
Issue Date: 8/16/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Balsam Street Ottawa ON

Database:
CA

Certificate #: 3889-6R6NVK
Application Year: 2006
Issue Date: 6/29/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Gladstone Avenue Ottawa ON

Database:
CA

Certificate #: 6651-73WP47
Application Year: 2007
Issue Date: 6/6/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: Willow, Lebreton, Raymond, Louisa, Bell, Eccles St.; Gladstone Ave. Ottawa ON

Database:
CA

Certificate #: 3766-4K2NZ4

Application Year: 00
Issue Date: 5/8/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Construction of Watermains along Willow St. (Preston St. to Bell St.), Gladstone Ave. (approx. 15 m. west of Lebreton St. to Bronson Ave.), Raymond St. (approx. 13 m. east of Lebreton St. to approx. 14 m. west of Lebreton St.), Louisa St. (approx. 13 m. east of Lebreton St. to approx. 13 m. west of Lebreton St.), Bell St. (approx. 17 m. north of Willow St. to approx. 14 m. south of Gladstone Ave.), Eccles St. (approx 19 m. west of Lebreton St. to Bell St.), Bell St. (approx 8 m. north of Eccles St.)

Contaminants:
Emission Control:

Site: Gladstone Avenue Ottawa ON **Database:** CA

Certificate #: 4558-4LXLWW
Application Year: 00
Issue Date: 7/5/00
Approval Type: Municipal & Private water
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the Regional Municipality of Ottawa-Carleton
Client Address: 111 Lisgar Street
Client City: Ottawa
Client Postal Code: K2P 2L7
Project Description: Watermains to be constructed on Gladstone Ave. and Percy St. in the City of Ottawa
Contaminants:
Emission Control:

Site: Willow, Booth Bell, Arthur, Cambridge Streets Ottawa ON **Database:** CA

Certificate #: 4165-4K6HGY
Application Year: 00
Issue Date: 5/10/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa
Client Postal Code: K1N 5A1
Project Description: This is an application for Municipal and Private Sewage Works Certificate of Approval for the construction of storm sewers and replacement of combined sewers.

Contaminants:
Emission Control:

Site: Gladstone Avenue Ottawa ON **Database:** CA

Certificate #: 2461-4LXMEM
Application Year: 00
Issue Date: 7/5/00
Approval Type: Municipal & Private sewage
Status: Approved
Application Type: New Certificate of Approval
Client Name: Corporation of the City of Ottawa
Client Address: 111 Sussex Drive, 7th Floor
Client City: Ottawa

Client Postal Code: K1N 5A1
Project Description: Construction of Storm and Sanitary sewers on Gladstone Avenue from Bronson Avenue to Bay Street
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON
BOOTH ST./LEBRETON ST. OTTAWA CITY ON

Database:
CA

Certificate #: 7-0124-99-
Application Year: 99
Issue Date: 3/24/1999
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

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:

Site: City of Ottawa
Gladstone Avenue Ottawa ON

Database:
CA

Certificate #: 7239-738KJA
Application Year: 2007
Issue Date: 6/18/2007
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Larch Street and Laurel Street Ottawa ON

Database:
CA

Certificate #: 9051-7BLLPL
Application Year: 2008
Issue Date: 3/25/2008

Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON
ARLINGTON AVE. OTTAWA CITY ON

Database:
CA

Certificate #: 3-1593-88-
Application Year: 88
Issue Date: 8/30/1988
Approval Type: Municipal sewage
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Preston Street Ottawa ON

Database:
CA

Certificate #: 0057-7EKK59
Application Year: 2008
Issue Date: 5/22/2008
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON
ARLINGTON STREET OTTAWA CITY ON

Database:
CA

Certificate #: 7-1365-88-
Application Year: 88
Issue Date: 8/30/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Gladstone Avenue Ottawa ON

Database:
CA

Certificate #: 3692-6PGP9X
Application Year: 2006
Issue Date: 5/6/2006
Approval Type: Municipal and Private Sewage Works
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: R.M. OF OTTAWA-CARLETON TRANSPORTATION
BOOTH ST. OTTAWA CITY ON

Database:
CA

Certificate #: 7-1059-88-
Application Year: 88
Issue Date: 7/13/1988
Approval Type: Municipal water
Status: Approved
Application Type:
Client Name:
Client Address:
Client City:
Client Postal Code:
Project Description:
Contaminants:
Emission Control:

Site: City of Ottawa
Gladstone Ave Ottawa ON K2G 6J8

Database:
ECA

Approval No: 3935-98BQWQ
Approval Date: 2013-08-01
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Gladstone Ave
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1525-95PLKG-14.pdf>
PDF Site Location:

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

Site: SNC-Lavalin Constructors (Pacific) Inc., Dragados Canada, Inc. and EllisDon Corporation operating as OLRT Constructors Booth St Ottawa ON K1Z 1G3

Database:
ECA

Approval No: 2119-A39JCV
Approval Date: 2015-10-14
Status: Approved
Record Type: ECA
Link Source: IDS
SWP Area Name:
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: SNC-Lavalin Constructors (Pacific) Inc., Dragados Canada, Inc. and EllisDon Corporation operating as OLRT Constructors

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

Address: Booth St
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/0563-A33SMJ-14.pdf>
PDF Site Location:

Site: *City of Ottawa* **Database:**
ECA
Larch Street and Laurel Street Ottawa ON K1P 1J1

Approval No: 9051-7BLLPL **MOE District:** Ottawa
Approval Date: 2008-03-25 **City:**
Status: Approved **Longitude:** -75.7108
Record Type: ECA **Latitude:** 45.405
Link Source: IDS **Geometry X:**
SWP Area Name: Rideau Valley **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: City of Ottawa
Address: Larch Street and Laurel Street
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1567-74CM38-14.pdf>
PDF Site Location:

Site: *The Corporation of the City of Ottawa* **Database:**
ECA
Willow St Booth, Bell, Arthur, Cambridge Streets Ottawa ON K1N 5A1

Approval No: 4165-4K6HGY **MOE District:**
Approval Date: 2000-05-10 **City:**
Status: Approved **Longitude:**
Record Type: ECA **Latitude:**
Link Source: IDS **Geometry X:**
SWP Area Name: **Geometry Y:**
Approval Type: ECA-MUNICIPAL AND PRIVATE SEWAGE WORKS
Project Type: MUNICIPAL AND PRIVATE SEWAGE WORKS
Business Name: The Corporation of the City of Ottawa
Address: Willow St Booth, Bell, Arthur, Cambridge Streets
Full Address:
Full PDF Link: <https://www.accessenvironment.ene.gov.on.ca/instruments/1226-4JRNEB-14.pdf>
PDF Site Location:

Site: *on Booth Street Ottawa ON* **Database:**
SPL

Ref No: 6061-85EN4C **Discharger Report:**
Site No: **Material Group:**
Incident Dt: **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: Other Discharges **Sector Type:** Other
Incident Event: **Agency Involved:**
Contaminant Code: 13 **Nearest Watercourse:**
Contaminant Name: DIESEL FUEL **Site Address:**
Contaminant Limit 1: **Site District Office:**
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:**
Environment Impact: Confirmed **Site Municipality:**
Nature of Impact: Soil Contamination **Site Lot:**
Receiving Medium: **Site Conc:**
Receiving Env: **Northing:**
MOE Response: No Field Response **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 5/13/2010 **Site Map Datum:**
Dt Document Closed: 6/17/2010 **SAC Action Class:** Land Spills
Incident Reason: **Source Type:**
Site Name: S 21 (1)(f) of FIPPA
Site County/District:

Site Geo Ref Meth:
Incident Summary: Chaudiere Bridge: 0.5 L of diesel to gravel.
Contaminant Qty: 0.5 L

Site: LEBRETTON ST BETWEEN GLADSTONE AND SUMMERSET<UNOFFICIAL> Ottawa ON **Database:** SPL

Ref No: 3271-5UPPB9 **Discharger Report:**
Site No: **Material Group:** Oil
Incident Dt: 12/29/2003 **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: **Sector Type:** Other
Incident Event: **Agency Involved:**
Contaminant Code: **Nearest Watercourse:**
Contaminant Name: GASOLINE **Site Address:**
Contaminant Limit 1: **Site District Office:** Ottawa
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:** Eastern
Environment Impact: **Site Municipality:** Ottawa
Nature of Impact: **Site Lot:**
Receiving Medium: Land **Site Conc:**
Receiving Env: **Nothing:**
MOE Response: **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 12/29/2003 **Site Map Datum:**
Dt Document Closed: **SAC Action Class:** Spill to Land
Incident Reason: **Source Type:**
Site Name: LEBRETTON ST BETWEEN GLADSTONE AND SUMMERSET<UNOFFICIAL>
Site County/District:
Site Geo Ref Meth:
Incident Summary: TSSA/MOE - Campbell Landing Marina - gas pump
Contaminant Qty:

Site: OTTAWA-CARLETON, R.M. OF OTTAWA RIVER, FROM TRIBUTARY AT THE BOOTH ST. REGULATOR SANITARY SEWER SYSTEM OTTAWA CITY ON **Database:** SPL

Ref No: 168657 **Discharger Report:**
Site No: **Material Group:**
Incident Dt: 6/3/1999 **Health/Env Conseq:**
Year: **Client Type:**
Incident Cause: WASTEWATER DISCHARGE TO WATERCOURSE **Sector Type:**
Incident Event: **Agency Involved:**
Contaminant Code: **Nearest Watercourse:**
Contaminant Name: **Site Address:**
Contaminant Limit 1: **Site District Office:**
Contam Limit Freq 1: **Site Postal Code:**
Contaminant UN No 1: **Site Region:**
Environment Impact: POSSIBLE **Site Municipality:** 20101
Nature of Impact: Water course or lake **Site Lot:**
Receiving Medium: WATER **Site Conc:**
Receiving Env: **Nothing:**
MOE Response: **Easting:**
Dt MOE Arvl on Scn: **Site Geo Ref Accu:**
MOE Reported Dt: 6/8/1999 **Site Map Datum:**
Dt Document Closed: **SAC Action Class:**
Incident Reason: EQUIPMENT FAILURE **Source Type:**
Site Name:
Site County/District:
Site Geo Ref Meth:
Incident Summary: RMOC- COMBINED SEWER OVERFLOW TO OTTAWA R. FROM CLOSED REGULATOR.
Contaminant Qty:

Site: OTTAWA-CARLETON, R.M. OF
BOOTH ST GATE SANITARY SEWER SYSTEM OTTAWA CITY ON

Database:
SPL

Ref No:	153868	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	3/28/1998	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	WASTEWATER DISCHARGE TO WATERCOURSE	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20101
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	WATER	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	3/28/1998	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	STORM/FLOOD/WIND	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	OTTAWA CARLETON R.M.- BYPASS OF RAW UNCHLORINATED SEWAGE,RAIN		
Contaminant Qty:			

Site: TOP VALU
PRESTON STREET, SOUTH OF GLADSTONE SERVICE STATION OTTAWA-CARLETON R.M. ON

Database:
SPL

Ref No:	42188	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	10/16/1990	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	CONTAINER OVERFLOW	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	POSSIBLE	Site Municipality:	20000
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	10/16/1990	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	ERROR	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	TOP VALU- 5 L DIESEL FUEL TO GROUND		
Contaminant Qty:			

Site: City of Ottawa
Booth Street Ottawa ON

Database:
SPL

Ref No:	4201-9VWVK8	Discharger Report:	
Site No:	NA	Material Group:	
Incident Dt:	4/25/2015	Health/Env Conseq:	
Year:		Client Type:	

Incident Cause:	Leak/Break	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:	27	Nearest Watercourse:	
Contaminant Name:	COOLANT N.O.S.	Site Address:	Booth Street
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:		Site Municipality:	Ottawa
Nature of Impact:	Land	Site Lot:	
Receiving Medium:		Site Conc:	
Receiving Env:		Northing:	5028023
MOE Response:	N	Easting:	445543
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	4/25/2015	Site Map Datum:	
Dt Document Closed:	5/7/2015	SAC Action Class:	Land Spills
Incident Reason:	Unknown / N/A	Source Type:	
Site Name:	Ottawa Roads and Sewers<UNOFFICIAL>		
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	Coolant to road and some to catch basin.		
Contaminant Qty:	10 L		

Site: OTTAWA-CARLETON, R.M. OF
ON THE TRANSITWAY EASTBOUND AT BOOTH AND LEBRETON MOTOR VEHICLE (OPERATING FLUID) OTTAWA CITY ON **Database:** SPL

Ref No:	125046	Discharger Report:	
Site No:		Material Group:	
Incident Dt:	4/17/1996	Health/Env Conseq:	
Year:		Client Type:	
Incident Cause:	OTHER CAUSE (N.O.S.)	Sector Type:	
Incident Event:		Agency Involved:	
Contaminant Code:		Nearest Watercourse:	
Contaminant Name:		Site Address:	
Contaminant Limit 1:		Site District Office:	
Contam Limit Freq 1:		Site Postal Code:	
Contaminant UN No 1:		Site Region:	
Environment Impact:	NOT ANTICIPATED	Site Municipality:	20101
Nature of Impact:	Water course or lake	Site Lot:	
Receiving Medium:	LAND	Site Conc:	
Receiving Env:		Northing:	
MOE Response:		Easting:	
Dt MOE Arvl on Scn:		Site Geo Ref Accu:	
MOE Reported Dt:	4/17/1996	Site Map Datum:	
Dt Document Closed:		SAC Action Class:	
Incident Reason:	UNKNOWN	Source Type:	
Site Name:			
Site County/District:			
Site Geo Ref Meth:			
Incident Summary:	OC TRANSP0-40L TRANSMISSION FLUID TO ROADWAY.		
Contaminant Qty:			

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. **Note:** Databases denoted with " * " indicates that the database will no longer be updated. See the individual database description for more information.

Abandoned Aggregate Inventory:

Provincial [AAGR](#)

The MAAP Program maintains a database of abandoned pits and quarries. Please note that the database is only referenced by lot and concession and city/town location. The database provides information regarding the location, type, size, land use, status and general comments.*

Government Publication Date: Sept 2002*

Aggregate Inventory:

Provincial [AGR](#)

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

Government Publication Date: Up to Sep 2020

Abandoned Mine Information System:

Provincial [AMIS](#)

The Abandoned Mines Information System contains data on known abandoned and inactive mines located on both Crown and privately held lands. The information was provided by the Ministry of Northern Development and Mines (MNDM), with the following disclaimer: "the database provided has been compiled from various sources, and the Ministry of Northern Development and Mines makes no representation and takes no responsibility that such information is accurate, current or complete". Reported information includes official mine name, status, background information, mine start/end date, primary commodity, mine features, hazards and remediation.

Government Publication Date: 1800-Oct 2018

Anderson's Waste Disposal Sites:

Private [ANDR](#)

The information provided in this database was collected by examining various historical documents which aimed to characterize the likely position of former waste disposal sites from 1860 to present. The research initiative behind the creation of this database was to identify those sites that are missing from the Ontario MOE Waste Disposal Site Inventory, as well as to provide revisions and corrections to the positions and descriptions of sites currently listed in the MOE inventory. In addition to historic waste disposal facilities, the database also identifies certain auto wreckers and scrap yards that have been extrapolated from documentary sources. Please note that the data is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1860s-Present

Aboveground Storage Tanks:

Provincial [AST](#)

Historical listing of aboveground storage tanks made available by the Department of Natural Resources and Forestry. Includes tanks used to hold water or petroleum. This dataset has been retired as of September 25, 2014 and will no longer be updated.

Government Publication Date: May 31, 2014

Automobile Wrecking & Supplies:

Private [AUWR](#)

This database provides an inventory of known locations that are involved in the scrap metal, automobile wrecking/recycling, and automobile parts & supplies industry. Information is provided on the company name, location and business type.

Government Publication Date: 1999-Sep 30, 2021

Borehole:

Provincial [BORE](#)

A borehole is the generalized term for any narrow shaft drilled in the ground, either vertically or horizontally. The information here includes geotechnical investigations or environmental site assessments, mineral exploration, or as a pilot hole for installing piers or underground utilities. Information is from many sources such as the Ministry of Transportation (MTO) boreholes from engineering reports and projects from the 1950 to 1990's in Southern Ontario. Boreholes from the Ontario Geological Survey (OGS) including The Urban Geology Analysis Information System (UGAIS) and the York Peel Durham Toronto (YPDT) database of the Conservation Authority Moraine Coalition. This database will include fields such as location, stratigraphy, depth, elevation, year drilled, etc. For all water well data or oil and gas well data for Ontario please refer to WWIS and OOGW.

Government Publication Date: 1875-Jul 2018

Certificates of Approval:

Provincial CA

This database contains the following types of approvals: Air & Noise, Industrial Sewage, Municipal & Private Sewage, Waste Management Systems and Renewable Energy Approvals. The MOE in Ontario states that any facility that releases emissions to the atmosphere, discharges contaminants to ground or surface water, provides potable water supplies, or stores, transports or disposes of waste, must have a Certificate of Approval before it can operate lawfully. Fields include approval number, business name, address, approval date, approval type and status. This database will no longer be updated, as CofA's have been replaced by either Environmental Activity and Sector Registry (EASR) or Environmental Compliance Approval (ECA). Please refer to those individual databases for any information after Oct.31, 2011.

Government Publication Date: 1985-Oct 30, 2011*

Dry Cleaning Facilities:

Federal CDRY

List of dry cleaning facilities made available by Environment and Climate Change Canada. Environment and Climate Change Canada's Tetrachloroethylene (Use in Dry Cleaning and Reporting Requirements) Regulations (SOR/2003-79) are intended to reduce releases of tetrachloroethylene to the environment from dry cleaning facilities.

Government Publication Date: Jan 2004-Dec 2019

Commercial Fuel Oil Tanks:

Provincial CFOT

Locations of commercial underground fuel oil tanks. This is not a comprehensive or complete inventory of commercial fuel tanks in the province; this listing is a copy of records of registered commercial underground fuel oil tanks obtained under Access to Public Information.

Note that the following types of tanks do not require registration: waste oil tanks in apartments, office buildings, residences, etc.; aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Chemical Manufacturers and Distributors:

Private CHEM

This database includes information from both a one time study conducted in 1992 and private source and is a listing of facilities that manufacture or distribute chemicals. The production of these chemical substances may involve one or more chemical reactions and/or chemical separation processes (i.e. fractionation, solvent extraction, crystallization, etc.).

Government Publication Date: 1999-Jan 31, 2020

Chemical Register:

Private CHM

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

Government Publication Date: 1999-Sep 30, 2021

Compressed Natural Gas Stations:

Private CNG

Canada has a network of public access compressed natural gas (CNG) refuelling stations. These stations dispense natural gas in compressed form at 3,000 pounds per square inch (psi), the pressure which is allowed within the current Canadian codes and standards. The majority of natural gas refuelling is located at existing retail gasoline that have a separate refuelling island for natural gas. This list of stations is made available by the Canadian Natural Gas Vehicle Alliance.

Government Publication Date: Dec 2012 -Nov 2021

Inventory of Coal Gasification Plants and Coal Tar Sites:

Provincial COAL

This inventory includes both the "Inventory of Coal Gasification Plant Waste Sites in Ontario-April 1987" and the Inventory of Industrial Sites Producing or Using Coal Tar and Related Tars in Ontario-November 1988) collected by the MOE. It identifies industrial sites that produced and continue to produce or use coal tar and other related tars. Detailed information is available and includes: facility type, size, land use, information on adjoining properties, soil condition, site operators/occupants, site description, potential environmental impacts and historic maps available. This was a one-time inventory.*

Government Publication Date: Apr 1987 and Nov 1988*

Compliance and Convictions:

Provincial CONV

This database summarizes the fines and convictions handed down by the Ontario courts beginning in 1989. Companies and individuals named here have been found guilty of environmental offenses in Ontario courts of law.

Government Publication Date: 1989-Jul 2021

Certificates of Property Use:

Provincial CPU

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

Government Publication Date: 1994 - Dec 31, 2021

Drill Hole Database:

Provincial

DRL

The Ontario Drill Hole Database contains information on more than 113,000 percussion, overburden, sonic and diamond drill holes from assessment files on record with the department of Mines and Minerals. Please note that limited data is available for southern Ontario, as it was the last area to be completed. The database was created when surveys submitted to the Ministry were converted in the Assessment File Research Image Database (AFRI) project. However, the degree of accuracy (coordinates) as to the exact location of drill holes is dependent upon the source document submitted to the MNDM. Levels of accuracy used to locate holes are: centering on the mining claim; a sketch of the mining claim; a 1:50,000 map; a detailed company map; or from submitted a "Report of Work".

Government Publication Date: 1886 - Sep 2020

Delisted Fuel Tanks:

Provincial

DTNK

List of fuel storage tank sites that were once found in - and have since been removed from - the list of fuel storage tanks made available by the regulatory agency under Access to Public Information.

Government Publication Date: May 31, 2021

Environmental Activity and Sector Registry:

Provincial

EASR

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. The EASR allows businesses to register certain activities with the ministry, rather than apply for an approval. The registry is available for common systems and processes, to which preset rules of operation can be applied. The EASR is currently available for: heating systems, standby power systems and automotive refinishing. Businesses whose activities aren't subject to the EASR may apply for an ECA (Environmental Compliance Approval), Please see our ECA database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Registry:

Provincial

EBR

The Environmental Registry lists proposals, decisions and exceptions regarding policies, Acts, instruments, or regulations that could significantly affect the environment. Through the Registry, thirteen provincial ministries notify the public of upcoming proposals and invite their comments. For example, if a local business is requesting a permit, license, or certificate of approval to release substances into the air or water; these are notified on the registry. Data includes: Approval for discharge into the natural environment other than water (i.e. Air) - EPA s. 9, Approval for sewage works - OWRA s. 53(1), and EPA s. 27 - Approval for a waste disposal site. For information regarding Permit to Take Water (PTTW), Certificate of Property Use (CPU) and (ORD) Orders please refer to those individual databases.

Government Publication Date: 1994 - Dec 31, 2021

Environmental Compliance Approval:

Provincial

ECA

On October 31, 2011, a smarter, faster environmental approvals system came into effect in Ontario. In the past, a business had to apply for multiple approvals (known as certificates of approval) for individual processes and pieces of equipment. Today, a business either registers itself, or applies for a single approval, depending on the types of activities it conducts. Businesses whose activities aren't subject to the EASR may apply for an ECA. A single ECA addresses all of a business's emissions, discharges and wastes. Separate approvals for air, noise and waste are no longer required. This database will also include Renewable Energy Approvals. For certificates of approval prior to Nov 1st, 2011, please refer to the CA database. For all Waste Disposal Sites please refer to the WDS database.

Government Publication Date: Oct 2011- Nov 30, 2021

Environmental Effects Monitoring:

Federal

EEM

The Environmental Effects Monitoring program assesses the effects of effluent from industrial or other sources on fish, fish habitat and human usage of fisheries resources. Since 1992, pulp and paper mills have been required to conduct EEM studies under the Pulp and Paper Effluent Regulations. This database provides information on the mill name, geographical location and sub-lethal toxicity data.

Government Publication Date: 1992-2007*

ERIS Historical Searches:

Private

EHS

ERIS has compiled a database of all environmental risk reports completed since March 1999. Available fields for this database include: site location, date of report, type of report, and search radius. As per all other databases, the ERIS database can be referenced on both the map and "Statistical Profile" page.

Government Publication Date: 1999-Nov 30, 2021

Environmental Issues Inventory System:

Federal

EIIS

The Environmental Issues Inventory System was developed through the implementation of the Environmental Issues and Remediation Plan. This plan was established to determine the location and severity of contaminated sites on inhabited First Nation reserves, and where necessary, to remediate those that posed a risk to health and safety; and to prevent future environmental problems. The EIIS provides information on the reserve under investigation, inventory number, name of site, environmental issue, site action (Remediation, Site Assessment), and date investigation completed.

Government Publication Date: 1992-2001*

Emergency Management Historical Event:

Provincial **EMHE**

List of locations of historical occurrences of emergency events, including those assigned to the Ministry of Natural Resources by Order-In-Council (OIC) under the Emergency Management and Civil Protection Act, as well as events where MNR provided requested emergency response assistance. Many of these events will have involved community evacuations, significant structural loss, and/or involvement of MNR emergency response staff. These events fall into one of ten (10) type categories: Dam Failure; Drought / Low Water; Erosion; Flood; Forest Fire; Soil and Bedrock Instability; Petroleum Resource Center Event, EMO Requested Assistance, Continuity of Operations Event, Other Requested Assistance. EMHE record details are reproduced by ERIS under License with the Ontario Ministry of Natural Resources © Queen's Printer for Ontario, 2017.

Government Publication Date: Dec 31, 2016

Environmental Penalty Annual Report:

Provincial **EPAR**

This database contains data from Ontario's annual environmental penalty report published by the Ministry of the Environment and Climate Change. These reports provide information on environmental penalties for land / water violations issued to companies in one of the nine industrial sectors covered by the Municipal Industrial Strategy for Abatement (MISA) regulations.

Government Publication Date: Jan 1, 2011 - Dec 31, 2020

List of Expired Fuels Safety Facilities:

Provincial **EXP**

List of facilities and tanks for which there was once a fuel registration. This is not a comprehensive or complete inventory of expired tanks/tank facilities in the province; this listing is a copy of previously registered tanks and facilities obtained under Access to Public Information. Includes private fuel outlets, bulk plants, fuel oil tanks, gasoline stations, marinas, propane filling stations, liquid fuel tanks, piping systems, etc; includes tanks which have been removed from the ground.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2020

Federal Convictions:

Federal **FCON**

Environment Canada maintains a database referred to as the "Environmental Registry" that details prosecutions under the Canadian Environmental Protection Act (CEPA) and the Fisheries Act (FA). Information is provided on the company name, location, charge date, offence and penalty.

Government Publication Date: 1988-Jun 2007*

Contaminated Sites on Federal Land:

Federal **FCS**

The Federal Contaminated Sites Inventory includes information on known federal contaminated sites under the custodianship of departments, agencies and consolidated Crown corporations as well as those that are being or have been investigated to determine whether they have contamination arising from past use that could pose a risk to human health or the environment. The inventory also includes non-federal contaminated sites for which the Government of Canada has accepted some or all financial responsibility. It does not include sites where contamination has been caused by, and which are under the control of, enterprise Crown corporations, private individuals, firms or other levels of government. Includes fire training sites and sites at which Per- and Polyfluoroalkyl Substances (PFAS) are a concern.

Government Publication Date: Jun 2000-Nov 2021

Fisheries & Oceans Fuel Tanks:

Federal **FOFT**

Fisheries & Oceans Canada maintains an inventory of aboveground & underground fuel storage tanks located on Fisheries & Oceans property or controlled by DFO. Our inventory provides information on the site name, location, tank owner, tank operator, facility type, storage tank location, tank contents & capacity, and date of tank installation.

Government Publication Date: 1964-Sep 2019

Federal Identification Registry for Storage Tank Systems (FIRSTS):

Federal **FRST**

A list of federally regulated Storage tanks from the Federal Identification Registry for Storage Tank Systems (FIRSTS). FIRSTS is Environment and Climate Change Canada's database of storage tank systems subject to the Storage Tank for Petroleum Products and Allied Petroleum Products Regulations. The main objective of the Regulations is to prevent soil and groundwater contamination from storage tank systems located on federal and aboriginal lands. Storage tank systems that do not have a valid identification number displayed in a readily visible location on or near the storage tank system may be refused product delivery.

Government Publication Date: May 31, 2018

Fuel Storage Tank:

Provincial **FST**

List of registered private and retail fuel storage tanks. This is not a comprehensive or complete inventory of private and retail fuel storage tanks in the province; this listing is a copy of registered private and retail fuel storage tanks, obtained under Access to Public Information.

Notes: registration was not required for private fuel underground/aboveground storage tanks prior to January 1990, nor for furnace oil tanks prior to May 1, 2002; registration is not required for waste oil tanks in apartments, office buildings, residences, etc., or aboveground gas or diesel tanks. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Fuel Storage Tank - Historic:

Provincial

[FSTH](#)

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks. Public records of private fuel storage tanks are only available since the registration became effective in September 1989. This information is now collected by the Technical Standards and Safety Authority.

Government Publication Date: Pre-Jan 2010*

Ontario Regulation 347 Waste Generators Summary:

Provincial

[GEN](#)

Regulation 347 of the Ontario EPA defines a waste generation site as any site, equipment and/or operation involved in the production, collection, handling and/or storage of regulated wastes. A generator of regulated waste is required to register the waste generation site and each waste produced, collected, handled, or stored at the site. This database contains the registration number, company name and address of registered generators including the types of hazardous wastes generated. It includes data on waste generating facilities such as: drycleaners, waste treatment and disposal facilities, machine shops, electric power distribution etc. This information is a summary of all years from 1986 including the most currently available data. Some records may contain, within the company name, the phrase "See & Use..." followed by a series of letters and numbers. This occurs when one company is amalgamated with or taken over by another registered company. The number listed as "See & Use", refers to the new ownership and the other identification number refers to the original ownership. This phrase serves as a link between the 2 companies until operations have been fully transferred.

Government Publication Date: 1986-Nov 30, 2021

Greenhouse Gas Emissions from Large Facilities:

Federal

[GHG](#)

List of greenhouse gas emissions from large facilities made available by Environment Canada. Greenhouse gas emissions in kilotonnes of carbon dioxide equivalents (kt CO₂ eq).

Government Publication Date: 2013-Dec 2019

TSSA Historic Incidents:

Provincial

[HINC](#)

List of historic incidences of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen recorded by the TSSA in their previous incident tracking system. The TSSA's Fuels Safety Program administers the Technical Standards & Safety Act 2000, providing fuel-related safety services associated with the safe transportation, storage, handling and use of fuels such as gasoline, diesel, propane, natural gas and hydrogen. Under this Act, the TSSA regulates fuel suppliers, storage facilities, transport trucks, pipelines, contractors and equipment or appliances that use fuels. Records are not verified for accuracy or completeness. This is not a comprehensive or complete inventory of historical fuel spills and leaks in the province. This listing is a copy of the data captured at one moment in time and is hence limited by the record date provided here.

Government Publication Date: 2006-June 2009*

Indian & Northern Affairs Fuel Tanks:

Federal

[IAFT](#)

The Department of Indian & Northern Affairs Canada (INAC) maintains an inventory of aboveground & underground fuel storage tanks located on both federal and crown land. Our inventory provides information on the reserve name, location, facility type, site/facility name, tank type, material & ID number, tank contents & capacity, and date of tank installation.

Government Publication Date: 1950-Aug 2003*

Fuel Oil Spills and Leaks:

Provincial

[INC](#)

Listing of spills and leaks of diesel, fuel oil, gasoline, natural gas, propane, and hydrogen reported to the Spills Action Centre (SAC). This is not a comprehensive or complete inventory of fuel-related leaks, spills, and incidents in the province; this listing is a copy of incidents reported to the SAC, obtained under Access to Public Information. Includes incidents from fuel-related hazards such as spills, fires, and explosions. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Landfill Inventory Management Ontario:

Provincial

[LIMO](#)

The Landfill Inventory Management Ontario (LIMO) database is updated every year, as the Ministry of the Environment, Conservation and Parks compiles new and updated information. Includes small and large landfills currently operating as well as those which are closed and historic. Operators of larger landfills provide landfill information for the previous operating year to the ministry for LIMO including: estimated amount of total waste received, landfill capacity, estimated total remaining landfill capacity, fill rates, engineering designs, reporting and monitoring details, size of location, service area, approved waste types, leachate of site treatment, contaminant attenuation zone and more. The small landfills include information such as site owner, site location and certificate of approval # and status.

Government Publication Date: Feb 28, 2019

Canadian Mine Locations:

Private

[MINE](#)

This information is collected from the Canadian & American Mines Handbook. The Mines database is a national database that provides over 290 listings on mines (listed as public companies) dealing primarily with precious metals and hard rocks. Listed are mines that are currently in operation, closed, suspended, or are still being developed (advanced projects). Their locations are provided as geographic coordinates (x, y and/or longitude, latitude). As of 2002, data pertaining to Canadian smelters and refineries has been appended to this database.

Government Publication Date: 1998-2009*

Mineral Occurrences:

Provincial [MNR](#)

In the early 70's, the Ministry of Northern Development and Mines created an inventory of approximately 19,000 mineral occurrences in Ontario, in regard to metallic and industrial minerals, as well as some information on building stones and aggregate deposits. Please note that the "Horizontal Positional Accuracy" is approximately +/- 200 m. Many reference elements for each record were derived from field sketches using pace or chain/tape measurements against claim posts or topographic features in the area. The primary limiting factor for the level of positional accuracy is the scale of the source material. The testing of horizontal accuracy of the source materials was accomplished by comparing the plan metric (X and Y) coordinates of that point with the coordinates of the same point as defined from a source of higher accuracy.

Government Publication Date: 1846-Dec 2020

National Analysis of Trends in Emergencies System (NATES):

Federal [NATE](#)

In 1974 Environment Canada established the National Analysis of Trends in Emergencies System (NATES) database, for the voluntary reporting of significant spill incidents. The data was to be used to assist in directing the work of the emergencies program. NATES ran from 1974 to 1994. Extensive information is available within this database including company names, place where the spill occurred, date of spill, cause, reason and source of spill, damage incurred, and amount, concentration, and volume of materials released.

Government Publication Date: 1974-1994*

Non-Compliance Reports:

Provincial [NCPL](#)

The Ministry of the Environment provides information about non-compliant discharges of contaminants to air and water that exceed legal allowable limits, from regulated industrial and municipal facilities. A reported non-compliance failure may be in regard to a Control Order, Certificate of Approval, Sectoral Regulation or specific regulation/act.

Government Publication Date: Dec 31, 2019

National Defense & Canadian Forces Fuel Tanks:

Federal [NDFT](#)

The Department of National Defense and the Canadian Forces maintains an inventory of all aboveground & underground fuel storage tanks located on DND lands. Our inventory provides information on the base name, location, tank type & capacity, tank contents, tank class, date of tank installation, date tank last used, and status of tank as of May 2001. This database will no longer be updated due to the new National Security protocols which have prohibited any release of this database.

Government Publication Date: Up to May 2001*

National Defense & Canadian Forces Spills:

Federal [NDSP](#)

The Department of National Defense and the Canadian Forces maintains an inventory of spills to land and water. All spill sites have been classified under the "Transportation of Dangerous Goods Act - 1992". Our inventory provides information on the facility name, location, spill ID #, spill date, type of spill, as well as the quantity of substance spilled & recovered.

Government Publication Date: Mar 1999-Apr 2018

National Defence & Canadian Forces Waste Disposal Sites:

Federal [NDWD](#)

The Department of National Defence and the Canadian Forces maintains an inventory of waste disposal sites located on DND lands. Where available, our inventory provides information on the base name, location, type of waste received, area of site, depth of site, year site opened/closed and status.

Government Publication Date: 2001-Apr 2007*

National Energy Board Pipeline Incidents:

Federal [NEBI](#)

Locations of pipeline incidents from 2008 to present, made available by the Canada Energy Regulator (CER) - previously the National Energy Board (NEB). Includes incidents reported under the Onshore Pipeline Regulations and the Processing Plant Regulations related to pipelines under federal jurisdiction, does not include incident data related to pipelines under provincial or territorial jurisdiction.

Government Publication Date: 2008-Jun 30, 2021

National Energy Board Wells:

Federal [NEBP](#)

The NEBW database contains information on onshore & offshore oil and gas wells that are outside provincial jurisdiction(s) and are thereby regulated by the National Energy Board. Data is provided regarding the operator, well name, well ID No./UWI, status, classification, well depth, spud and release date.

Government Publication Date: 1920-Feb 2003*

National Environmental Emergencies System (NEES):

Federal

NEES

In 2000, the Emergencies program implemented NEES, a reporting system for spills of hazardous substances. For the most part, this system only captured data from the Atlantic Provinces, some from Quebec and Ontario and a portion from British Columbia. Data for Alberta, Saskatchewan, Manitoba and the Territories was not captured. However, NEES is also a repository for previous Environment Canada spill datasets. NEES is composed of the historic datasets ' or Trends ' which dates from approximately 1974 to present. NEES Trends is a compilation of historic databases, which were merged and includes data from NATES (National Analysis of Trends in Emergencies System), ARTS (Atlantic Regional Trends System), and NEES. In 2001, the Emergencies Program determined that variations in reporting regimes and requirements between federal and provincial agencies made national spill reporting and trend analysis difficult to achieve. As a consequence, the department has focused efforts on capturing data on spills of substances which fall under its legislative authority only (CEPA and FA). As such, the NEES database will be decommissioned in December 2004.

Government Publication Date: 1974-2003***National PCB Inventory:**

Federal

NPCB

Environment Canada's National PCB inventory includes information on in-use PCB containing equipment in Canada including federal, provincial and private facilities. Federal out-of-service PCB containing equipment and PCB waste owned by the federal government or by federally regulated industries such as airlines, railway companies, broadcasting companies, telephone and telecommunications companies, pipeline companies, etc. are also listed. Although it is not Environment Canada's mandate to collect data on non-federal PCB waste, the National PCB inventory includes some information on provincial and private PCB waste and storage sites. Some addresses provided may be Head Office addresses and are not necessarily the location of where the waste is being used or stored.

Government Publication Date: 1988-2008***National Pollutant Release Inventory:**

Federal

NPRI

Environment Canada has defined the National Pollutant Release Inventory ("NPRI") as a federal government initiative designed to collect comprehensive national data regarding releases to air, water, or land, and waste transfers for recycling for more than 300 listed substances.

Government Publication Date: 1993-May 2017**Oil and Gas Wells:**

Private

OGWE

The Nickle's Energy Group (publisher of the Daily Oil Bulletin) collects information on drilling activity including operator and well statistics. The well information database includes name, location, class, status and depth. The main Nickle's database is updated on a daily basis, however, this database is updated on a monthly basis. More information is available at www.nickles.com.

Government Publication Date: 1988-Nov 30, 2021**Ontario Oil and Gas Wells:**

Provincial

OOGW

In 1998, the MNR handed over to the Ontario Oil, Gas and Salt Resources Corporation, the responsibility of maintaining a database of oil and gas wells drilled in Ontario. The OGSR Library has over 20,000+ wells in their database. Information available for all wells in the ERIS database include well owner/operator, location, permit issue date, and well cap date, license No., status, depth and the primary target (rock unit) of the well being drilled. All geology/stratigraphy table information, plus all water table information is also provide for each well record.

Government Publication Date: 1800-Jan 2021**Inventory of PCB Storage Sites:**

Provincial

OPCB

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of PCB storage sites within the province. Ontario Regulation 11/82 (Waste Management - PCB) and Regulation 347 (Generator Waste Management) under the Ontario EPA requires the registration of inactive PCB storage equipment and/or disposal sites of PCB waste with the Ontario Ministry of Environment. This database contains information on: 1) waste quantities; 2) major and minor sites storing liquid or solid waste; and 3) a waste storage inventory.

Government Publication Date: 1987-Oct 2004; 2012-Dec 2013**Orders:**

Provincial

ORD

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all Orders on the registry such as (EPA s. 17) - Order for remedial work, (EPA s. 18) - Order for preventative measures, (EPA s. 43) - Order for removal of waste and restoration of site, (EPA s. 44) - Order for conformity with Act for waste disposal sites, (EPA s. 136) - Order for performance of environmental measures.

Government Publication Date: 1994 - Dec 31, 2021**Canadian Pulp and Paper:**

Private

PAP

This information is part of the Pulp and Paper Canada Directory. The Directory provides a comprehensive listing of the locations of pulp and paper mills and the products that they produce.

Government Publication Date: 1999, 2002, 2004, 2005, 2009-2014**Parks Canada Fuel Storage Tanks:**

Federal

PCFT

Canadian Heritage maintains an inventory of known fuel storage tanks operated by Parks Canada, in both National Parks and at National Historic Sites. The database details information on site name, location, tank install/removal date, capacity, fuel type, facility type, tank design and owner/operator.

Government Publication Date: 1920-Jan 2005*

Pesticide Register:

Provincial PES

The Ontario Ministry of the Environment and Climate Change maintains a database of licensed operators and vendors of registered pesticides.

Government Publication Date: Oct 2011- Nov 30, 2021

Pipeline Incidents:

Provincial PINC

List of pipeline incidents (strikes, leaks, spills). This is not a comprehensive or complete inventory of pipeline incidents in the province; this listing in an historical copy of records previously obtained under Access to Public Information. Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Private and Retail Fuel Storage Tanks:

Provincial PRT

The Fuels Safety Branch of the Ontario Ministry of Consumer and Commercial Relations maintained a database of all registered private fuel storage tanks and licensed retail fuel outlets. This database includes an inventory of locations that have gasoline, oil, waste oil, natural gas and/or propane storage tanks on their property. The MCCR no longer collects this information. This information is now collected by the Technical Standards and Safety Authority (TSSA).

Government Publication Date: 1989-1996*

Permit to Take Water:

Provincial PTTW

This is a subset taken from Ontario's Environmental Registry (EBR) database. It will include all PTTW's on the registry such as OWRA s. 34 - Permit to take water.

Government Publication Date: 1994 - Dec 31, 2021

Ontario Regulation 347 Waste Receivers Summary:

Provincial REC

Part V of the Ontario Environmental Protection Act ("EPA") regulates the disposal of regulated waste through an operating waste management system or a waste disposal site operated or used pursuant to the terms and conditions of a Certificate of Approval or a Provisional Certificate of Approval. Regulation 347 of the Ontario EPA defines a waste receiving site as any site or facility to which waste is transferred by a waste carrier. A receiver of regulated waste is required to register the waste receiving facility. This database represents registered receivers of regulated wastes, identified by registration number, company name and address, and includes receivers of waste such as: landfills, incinerators, transfer stations, PCB storage sites, sludge farms and water pollution control plants. This information is a summary of all years from 1986 including the most currently available data.

Government Publication Date: 1986-1990, 1992-2019

Record of Site Condition:

Provincial RSC

The Record of Site Condition (RSC) is part of the Ministry of the Environment's Brownfields Environmental Site Registry. Protection from environmental cleanup orders for property owners is contingent upon documentation known as a record of site condition (RSC) being filed in the Environmental Site Registry. In order to file an RSC, the property must have been properly assessed and shown to meet the soil, sediment and groundwater standards appropriate for the use (such as residential) proposed to take place on the property. The Record of Site Condition Regulation (O. Reg. 153/04) details requirements related to site assessment and clean up.

RSCs filed after July 1, 2011 will also be included as part of the new (O.Reg. 511/09).

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

Retail Fuel Storage Tanks:

Private RST

This database includes an inventory of retail fuel outlet locations (including marinas) that have on their property gasoline, oil, waste oil, natural gas and / or propane storage tanks.

Government Publication Date: 1999-Sep 30, 2021

Scott's Manufacturing Directory:

Private SCT

Scott's Directories is a data bank containing information on over 200,000 manufacturers across Canada. Even though Scott's listings are voluntary, it is the most comprehensive database of Canadian manufacturers available. Information concerning a company's address, plant size, and main products are included in this database.

Government Publication Date: 1992-Mar 2011*

Ontario Spills:

Provincial SPL

List of spills and incidents made available the Ministry of the Environment, Conservation and Parks. This database identifies information such as location (approximate), type and quantity of contaminant, date of spill, environmental impact, cause, nature of impact, etc. Information from 1988-2002 was part of the ORIS (Occurrence Reporting Information System). The SAC (Spills Action Centre) handles all spills reported in Ontario. Regulations for spills in Ontario are part of the MOE's Environmental Protection Act, Part X.

Government Publication Date: 1988-Sep 2020

Wastewater Discharger Registration Database:

Provincial [SRDS](#)

Information under this heading is combination of the following 2 programs. The Municipal/Industrial Strategy for Abatement (MISA) division of the Ontario Ministry of Environment maintained a database of all direct dischargers of toxic pollutants within nine sectors including: Electric Power Generation; Mining; Petroleum Refining; Organic Chemicals; Inorganic Chemicals; Pulp & Paper; Metal Casting; Iron & Steel; and Quarries. All sampling information is now collected and stored within the Sample Result Data Store (SRDS).

Government Publication Date: 1990-Dec 31, 2018

Anderson's Storage Tanks:

Private [TANK](#)

The information provided in this database was collected by examining various historical documents, which identified the location of former storage tanks, containing substances such as fuel, water, gas, oil, and other various types of miscellaneous products. Information is available in regard to business operating at tank site, tank location, permit year, permit & installation type, no. of tanks installed & configuration and tank capacity. Data contained within this database pertains only to the city of Toronto and is not warranted to be complete, exhaustive or authoritative. The information was collected for research purposes only.

Government Publication Date: 1915-1953*

Transport Canada Fuel Storage Tanks:

Federal [TCFT](#)

List of fuel storage tanks currently or previously owned or operated by Transport Canada. This inventory also includes tanks on The Pickering Lands, which refers to 7,530 hectares (18,600 acres) of land in Pickering, Markham, and Uxbridge owned by the Government of Canada since 1972; properties on this land has been leased by the government since 1975, and falls under the Site Management Policy of Transport Canada, but is administered by Public Works and Government Services Canada. This inventory provides information on the site name, location, tank age, capacity and fuel type.

Government Publication Date: 1970 - Dec 2020

Variations for Abandonment of Underground Storage Tanks:

Provincial [VAR](#)

Listing of variances granted for storage tank abandonment. This is not a comprehensive or complete inventory of tank abandonment variances in the province; this listing is a copy of tank abandonment variance records previously obtained under Access to Public Information. In Ontario, registered underground storage tanks must be removed within two years of disuse; if removal of a tank is not feasible, an application may be sought for a variance from this code requirement.

Records are not verified for accuracy or completeness.

Government Publication Date: May 31, 2021

Waste Disposal Sites - MOE CA Inventory:

Provincial [WDS](#)

The Ontario Ministry of Environment, Waste Management Branch, maintains an inventory of known open (active or inactive) and closed disposal sites in the Province of Ontario. Active sites maintain a Certificate of Approval, are approved to receive and are receiving waste. Inactive sites maintain Certificate(s) of Approval but are not receiving waste. Closed sites are not receiving waste. The data contained within this database was compiled from the MOE's Certificate of Approval database. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number. All new Environmental Compliance Approvals handed out after Oct 31, 2011 for Waste Disposal Sites will still be found in this database.

Government Publication Date: Oct 2011- Nov 30, 2021

Waste Disposal Sites - MOE 1991 Historical Approval Inventory:

Provincial [WDSH](#)

In June 1991, the Ontario Ministry of Environment, Waste Management Branch, published the "June 1991 Waste Disposal Site Inventory", of all known active and closed waste disposal sites as of October 30th, 1990. For each "active" site as of October 31st 1990, information is provided on site location, site/CA number, waste type, site status and site classification. For each "closed" site as of October 31st 1990, information is provided on site location, site/CA number, closure date and site classification. Locations of these sites may be cross-referenced to the Anderson database described under ERIS's Private Source Database section, by the CA number.

Government Publication Date: Up to Oct 1990*

Water Well Information System:

Provincial [WWIS](#)

This database describes locations and characteristics of water wells found within Ontario in accordance with Regulation 903. It includes such information as coordinates, construction date, well depth, primary and secondary use, pump rate, static water level, well status, etc. Also included are detailed stratigraphy information, approximate depth to bedrock and the approximate depth to the water table.

Government Publication Date: Apr 30, 2021

Definitions

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

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

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

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

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

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

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

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

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

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

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

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

ERIS

ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *R63048, Ottawa, ON*
Report Type: *City Directory*
Order No: *22010600157*
Information Source: *Vernon's Ottawa and Area, Ontario City Directory*
Date Completed: *2022/01/28*

****Note addendum regarding documentation results****

Environmental Risk Information Services

City Directory Information Source

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 2011	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Fanto Group

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON

Year: 2006/07	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Vietnamese Canadian Federation
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Sleiman Oil Corporation
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 2001/02	
Site Listing:	-No Civic Address

Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Vietnamese Canadian Federation
261 Rochester Street	-Anti-Stress
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1996/97	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed

25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Vietnamese Canadian Federation
261 Rochester Street	-Tele-Litho Inc
263 Rochester Street	-Oliviero Jack & Sons Painting & Decorating Inc
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1992	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed

249 Rochester Street	-Vietnamese Canadian Federation
261 Rochester Street	-Tele-Litho Inc
263 Rochester Street	-Midtown Convenience Store
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1987	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Café Delight Emigranti
261 Rochester Street	-Residential or Address Not Listed

263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1981/82	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Café Delight Emigranti
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Minnelli's Dry Cleaning

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1976	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Café Delight Emigranti
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Minnelli's Dry Cleaning

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON

Year: 1971	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-George's Fruit Store
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Minnelli's Dry Cleaning

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1965	
Site Listing:	-No Civic Address

Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-George's Fruit Store
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Minnelli's Dry Cleaning

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1960	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed

25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-George's Fruit Store
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	- Domenic Paints

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1955	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed

249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1950	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Capital Photo Engraving
261 Rochester Street	-Residential or Address Not Listed

263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1946	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1941	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Mayfair Bakery
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1935	

Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Mayfair Pie Bakery
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1930	
Site Listing:	-No Civic Address
Adjacent Properties:	

23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1926	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed

27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Chinese Laundry
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1920	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-St Agnes School Annex

261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Chinese Laundry
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1915	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed

267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1910	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
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Site Address:	R63048, Ottawa, ON
Year: 1905	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1900	

Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1895/96	
Site Listing:	-No Civic Address
Adjacent Properties:	

23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed
27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1890/91	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Residential or Address Not Listed
25 Balsam Street	-Residential or Address Not Listed

27 Balsam Street	-Residential or Address Not Listed
249 Rochester Street	-Residential or Address Not Listed
261 Rochester Street	-Residential or Address Not Listed
263 Rochester Street	-Residential or Address Not Listed
267 Rochester Street	-Residential or Address Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1885/86	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Street Not Listed
25 Balsam Street	-Street Not Listed
27 Balsam Street	-Street Not Listed
249 Rochester Street	-Street Not Listed

261 Rochester Street	-Street Not Listed
263 Rochester Street	-Street Not Listed
267 Rochester Street	-Street Not Listed

PROJECT NUMBER: 22010600157	
Site Address:	R63048, Ottawa, ON
Year: 1879	
Site Listing:	-No Civic Address
Adjacent Properties:	
23 Balsam Street	-Street Not Listed
25 Balsam Street	-Street Not Listed
27 Balsam Street	-Street Not Listed
249 Rochester Street	-Street Not Listed
261 Rochester Street	-Street Not Listed
263 Rochester Street	-Street Not Listed

267 Rochester Street	-Street Not Listed
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-All listings for businesses were listed as they are in the city directory.

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

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

ERIS
ENVIRONMENTAL RISK INFORMATION SERVICES



CITY
DIRECTORY

Project Property: *245 & 247 Rochester Street, Ottawa Ontario*
Report Type: *City Directory*
Order No: *22020601277*
Information Source: *Vernon's Ottawa and Area, Ontario City Directory*
Date Completed: *07/02/2022*

****See Addendum at bottom****

City Directory Information Source	
Vernon's Ottawa and Area, Ontario City Directory	

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 2011	
Site Listing:	245 – Residential or No Listing (Not Individually Indicated Within Coverage) 247 – Residential or No Listing (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 2006/07	
Site Listing:	245 – Residential or No Listing (Not Individually Indicated Within Coverage) 247 – Residential or No Listing (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario

Year: 2001/02	
Site Listing:	245 – Residential or No Listing (Not Individually Indicated Within Coverage) 247 – Residential or No Listing (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1996/97	
Site Listing:	245 – Residential or No Listing (Not Individually Indicated Within Coverage) 247 – Deborah’s Hair Design

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1992	
Site Listing:	245 – Don’s Variety Store 247 – Deborah’s Hair Design

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario

Year: 1987	
Site Listing:	245 – Don’s Varsity Store 247 – Ron’s Take Out

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1981/82	
Site Listing:	245 – Don’s Varsity Store 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1976	
Site Listing:	245 – Obe Employees Assoc 247 – Kary Lyne Take Out

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario

Year: 1971	
Site Listing:	245 – Continental Beauty Salon 247 – Karylyne Take Out

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1965	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Storage

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1960	
Site Listing:	245 – Don’s Confectionery 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario

Year: 1955	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Storage

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1950	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1946	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
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Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1941	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1935	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1930	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1926	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1920	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1915	

Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)
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PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1910	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1905	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario

Year: 1900	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1895/96	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1890/91	
Site Listing:	245 – Residential or No Listings (Not Individually Indicated Within Coverage) 247 – Residential or No Listings (Not Individually Indicated Within Coverage)

PROJECT NUMBER: 22020601277	
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Site Address:	245 & 247 Rochester Street, Ottawa Ontario
Year: 1885/86	
Site Listing:	245 – Street Not Listed 247 – Street Not Listed

*****Please note in-house information was used for this directory*****

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

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

APPENDIX 8 WELL RECORDS



Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: **Fanto Group** Last Name / Organization: _____ Email Address: _____ Well Constructed by Well Owner
 Mailing Address (Street Number/Name): **2012 Gladwin Cr** Municipality: **Ottawa** Province: **ON** Postal Code: **K1B 5N1** Telephone No. (Area Code): **1 613 232 4344**

Well Location

Address of Well Location (Street Number/Name): **249 Rochester St.** Township: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____
 County/District/Municipality: _____ Municipal Plan and Block Number: _____

UTM Coordinates: Zone: **18** Easting: **83134444** Northing: **335028334**

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form.)

General Colour	Most Common Material	Other Materials	General Description	Depth (m): From To
Grey	limestone		Fractured	0 4.57

Annular Space

Depth (m) (From To)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
0 1.83	Grout slurry	
1.83 2.74	Grout	
2.74 4.57	Sand	

Results of Well Yield Testing

Time (min)	Water Level (m)	Recovery Time (min)	Water Level (m)
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Method of Construction

Casing Top Drilling
 Rotary (Conventional) Jetting
 Rotary (Reverse) Driving
 Boring Digging
 Air-lift system
 Other specify _____

Well Use

Private Commercial Industrial
 Domestic Drinking Recreational
 Livestock Test Hole Monitoring
 Irrigation Cooling & Air Conditioning
 Geothermal
 Other specify _____

Construction Record - Casing

Inside Diameter (mm)	Open End OR External (Glassized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm)	Depth (m): From To
3.45	PVC	345	0 3.1

Status of Well

Water Supply
 Regeneration Well
 Test Hole
 Recharge Well
 Drilling Well
 Observation well
 Alteration (Construction)
 Abandoned
 Abandoned, Poor Water Quality
 Abandoned, other specify _____
 Other specify _____

Construction Record - Screen

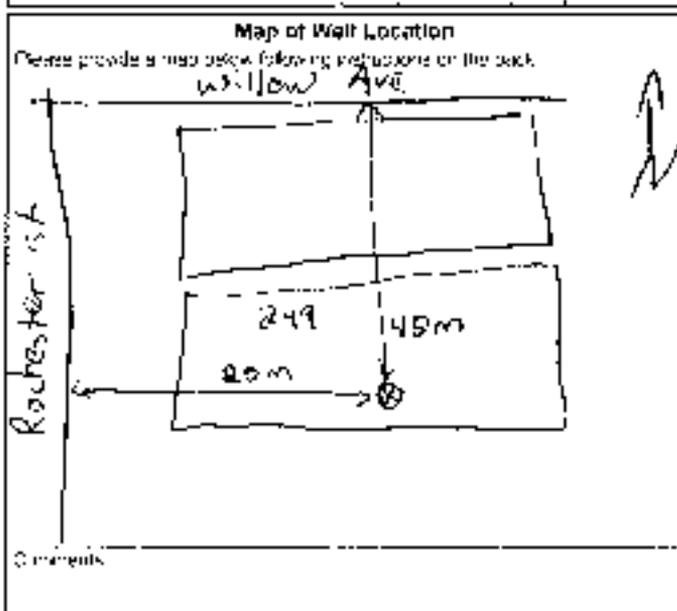
Outside Diameter (mm)	Material (Mesh, Galvanized Steel)	Slot Size	Depth (m): From To
4.21	PVC	10	3.1 4.57

Water Details

Water found at Depth (m)	Kind of Water	Fresh	Unfresh	Depth (m): From To	Diameter (mm)
	Gas Other, specify			0 1.83	8
	Gas Other, specify			1.83 4.57	5.71

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Drilling Group** Well Contractor's License No.: **7241**
 Business Address (Street Number/Name): **147-2 W. Beaver Creek** Municipality: **Richmond Hill**
 Province: **ON** Postal Code: **L4B 1C6** Business E-mail Address: **wirecards@strataoil.com**
 Business Telephone No. (area code): **905 764 9304** Name of Well Technician (Last Name, First Name): **Beatty Brian**
 Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2013 05 31**



Well owners (Canadian package required)	Date Package Delivered	Ministry Use Only Add No.
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2013 05 26	2154424 JUL 05 2013

APPENDIX 9 QUALIFICATIONS OF ASSESSOR



PAUL DOUGLAS REW, P.Eng.

EDUCATION 1973 - 1979 University of Waterloo, B.A.Sc. Engineering

PROFESSIONAL MEMBERSHIPS:

- Professional Engineers of Ontario (PEO)
- Ontario Petroleum Contractors Association (OPCA)
- Canadian Oil Heat Association (COHA)
- National Association of Corrosion Engineers (NACE)
- National Groundwater Association
- Ontario Federation of Agriculture (OFA)

CONTINUING EDUCATION:

- On-Site Remediation of Contaminated Soil, Technical University of Nova Scotia
- Groundwater Contamination, Technical University of Nova Scotia
- Soil and Groundwater Remediation Strategies, National Water Well Association
- The Ontario Brownfield's Regulatory Summit (3rd Annual)
- Contaminated Lands, The Canadian Institute, Toronto
- Conducting Environmental Site Assessments in Canada; Associated Environmental Site Assessors of Canada Inc.
- Wind Farm Development, Design, Operation and Maintenance; Educational Program Innovations Center
- Ontario Environmental Farm Plan
- Petroleum Oriented Safety Training

EXPERIENCE:

- Conducting Phase I, Phase II and Phase III environmental site assessments.
- Site clean-ups, primarily of hydrocarbon spills and leaks.
- Overseeing the restoration / redevelopment of industrial / commercial properties.
- Emergency response for hydrocarbon spills.
- Implementing groundwater restoration / remediation programs.
- Expert witness for site rehabilitations of sites in previous hydrocarbon use
- Meeting with clients, site operators and owners to coordinate investigations and clean-ups.
- Coordinating with government agencies (Ministry of the Environment and Energy and Fuels Safety Branch, Technical Standards and Safety Authority) to meet governing criteria.

MAJOR PROJECTS EXPERIENCE:

- Former DHI Property, Streetsville, Ontario
Implementing a site restoration of a former porcelain manufacturing facility and landfill site for redevelopment of the property for residential land use
- Former Roundhouse Property, London, Ontario
Overseeing the restoration of former Roundhouse property impacted by hydrocarbon
- Former Lafarge Canada Inc. property, Guelph, Ontario
Verification drilling program to determine presence of hydrocarbons and impairment from heavy metals at the former Oaks Pipe and Precast Plant facility. Soils and groundwater investigations.
- Former Serco Facility, London, Ontario
Overseeing demolition of industrial complex including general contracting services, removal of abandoned underground storage tanks, testing of soils and groundwater

PAUL DOUGLAS REW, P.Eng.

WORK EXPERIENCE

1993 - Present **Rubicon Environmental**
Environmental Engineering Consultant

1989 - 1993 **Barenco Inc.**
Environmental Engineering Consultant

1982 - 1987 **Northwest Digital Ltd.**
Principal, Calgary, Alberta

- Vice President Sales and member, Board of Directors, 10 million dollars sales (70 employees).
- Providing engineering solutions for industry.
- Engineering applications, primarily for upstream and downstream petroleum applications and real time monitoring.

1981 **Leasametric Canada Limited**
Western Canadian Sales Manager, Calgary, AB and Vancouver, BC

- Sales and rentals of computer systems and electronic instrumentation.
- Overseeing Western Canadian inventory centre and office.

1979 - 1980 **Hewlett-Packard Canada Ltd.**
Technical Sales Representative, Calgary, AB

- Technical sales representative for real time computer systems.
- Advanced training in computer applications.
- Completed a variety of business courses.

1978 **Westinghouse Canada Ltd.**
Field Engineer, Columbia, South America

- Coordinating and supervising Columbian tradespeople for the installation of turbines.
- Checking and calibrating control systems.
- Turbine commissioning tests.
- Natural gas pipeline corrosion inspection.

1977: **Westinghouse Canada Ltd.**
Field Engineer, Libya, Africa

- Coordinating and supervising European and Middle East tradespeople for installing and operating a power turbine generating station.
- Power distribution for irrigation of the Sahara Desert for grain production.

PAUL DOUGLAS REW, P.Eng.

1977: **Ministry of Transport**
Electronic Technologist, Ottawa, ON

- Participating as a member of an engineering team conducting field studies and system tests.
- Developing engineering improvements for existing systems.
- Performing technical studies and writing technical reports.

1975 and 1976: **Corrosion Services Inc.**
Field Engineer, Southern Ontario

- Supervising the survey crew for a potential survey of the TransCanada Pipeline (Huntsville to Winnipeg).
- Implementing cathodic protection systems for buried tanks and elevated water towers.

1973: **Ministry of Revenue**
Commercial Assessor (Southern Ontario)

- Assessing industrial properties