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Phase I - Environmental Site Assessment

Existing Commercial Property
989 Somerset Street West
Ottawa, Ontario

Prepared For

Domicile Developments

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EXECUTIVE SUMMARY

Assessment

Paterson Group was retained by Domicile Developments to conduct a Phase I Environmental Site Assessment (ESA) of the property located at 989 Somerset Street West (addressed locally as 989 Somerset Street West and 160 Spruce Street), in the City of Ottawa, Ontario. The purpose of this Phase I-Environmental Site Assessment (Phase I-ESA) was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

The property is currently occupied by a two-storey commercial building. Based on historical research, the property is considered to have originally been developed with the present-day building, which was initially constructed as a manufacturing facility for wood products. The building has historically been occupied by a machine shop and printing business, and is currently occupied by an antiques retailer (upper level), a paint retailer, and storage for Domicile Developments (lower level).

In 2003 and 2004, Paterson completed several subsurface investigations at the subject site and adjacent properties. At the time, the subject site was occupied by a machine shop (Robert Tape Ltd., second floor) as well as the present-day tenant, Ultralux Paints. The purpose of the subsurface investigations was to address concerns associated with the machine shop on-site and past industrial activities on-site and at neighbouring properties. Soil and groundwater samples were submitted for analysis of BTEX, PHCs, and metals. All soil and groundwater samples were in compliance with the applicable MOE standards. A Record of Site Condition (RSC) was filed for the subject property in 2004 and was acknowledged by MOE. The RSC was filed in support of a land use change to residential from commercial.

Following the historical research, a site visit was conducted at the subject site and Phase I ESA study area. The site visit did not identify any new Areas of Potential Environmental Concern with respect to the subject site. Surrounding land use is generally residential and commercial.

The results of the historical research, personal interviews, and site visit identified the historical presence of Potentially Contaminating Activities at the subject site and at neighbouring properties. However, these PCAs have been addressed by the previous subsurface investigations at the site, and as such, no Areas of Potential Environmental Concern are considered to be present at the subject site.

Recommendations

Based on the results of the assessment, **in our opinion, a Phase II-Environmental Site Assessment is not required for the property.**

Based on the results of the Phase I-ESA, the presence of potential asbestos-containing materials (ACMs) was noted on the interior of the subject building. A Designated Substance Survey (DSS) has been completed for the subject site and is provided under separate cover.

1.0 INTRODUCTION

At the request of Domicile Developments, Paterson Group (Paterson) conducted a Phase I Environmental Site Assessment (Phase I-ESA) of the property located at 989 Somerset Street West, in the City of Ottawa, Ontario. The purpose of this Phase I ESA was to research the past and current use of the site and study area and to identify any environmental concerns with the potential to have impacted the subject property.

Paterson was engaged to conduct this Phase I-ESA by Mr. David Renfroe of Domicile. Domicile's offices are located at 371 Richmond Road, Suite #1, Ottawa, Ontario. Mr. Renfroe can be reached by telephone at (613) 728-0388.

This report has been prepared specifically and solely for the above noted project which is described herein. It contains all of our findings and results of the environmental conditions at this site.

This Phase I-ESA report has been prepared in general accordance with Ontario Regulation 153/04 as amended by O.Reg. 269/11 (Environmental Protection Act), and also complies with the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I-ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

2.0 PHASE I PROPERTY INFORMATION

Address: 989 Somerset Street West (locally listed as 989 Somerset Street West and 160 Spruce Street), Ottawa, Ontario.

Legal Description: Part of Lot 4 and All of Lot 5 (South Spruce Street Lots) and All of Lot 4 and 5 (North Somerset Street West), Plan 73, in the City of Ottawa, Ontario.

Property Identification Number: 04107-0124.

Location: The subject site is located on the north side of Somerset Street West, to the east of City Centre Avenue (formerly Champagne Avenue North), in the City of Ottawa, Ontario. The subject site is shown on Figure 1 - Key Plan following the body of this report.

Latitude and Longitude: 45° 24' 28" N, 75° 43' 01" W.

Site Description:

Configuration: Irregular.

Site Area: 0.19 hectares (approximate).

Zoning: MC - Mixed Use Centre Zone.

Current Use: The subject site is currently occupied by a two-storey commercial building and associated paved asphalt parking areas.

Services: The subject site is located in a municipally serviced area.

3.0 SCOPE OF INVESTIGATION

The scope of work for this Phase I – Environmental Site Assessment was as follows:

- Determine the historical activities on the subject site and study area by conducting a review of readily available records, reports, photographs, plans, mapping, databases and regulatory agencies;
- Investigate the existing conditions present at the subject site and study area by conducting site reconnaissance;
- Conduct interviews with persons knowledgeable of current and historic operations on the subject property, and if warranted, neighbouring properties;
- Present the results of our findings in a comprehensive report in general accordance with the requirements of Ontario Regulation 269/11 amending O.Reg. 153/04 made under the Environmental Protection Act and in compliance with the requirements of CSA Z768-01;
- Provide a preliminary environmental site evaluation based on our findings;
- Provide preliminary remediation recommendations and further investigative work if contamination is suspected or encountered.

4.0 RECORDS REVIEW

4.1 General

Phase I-ESA Study Area Determination

A radius of approximately 250 m was determined to be appropriate as a Phase I ESA study area for this assignment. Properties outside the 250 m radius are not considered to have impacted the subject land, based on their significant distance from the site.

First Developed Use Determination

According to the chain of title, city directories, and aerial photos, the first developed use of the subject site is interpreted to be the present-day two-storey building. The subject site was initially developed in or around 1921. The range of addresses encompassing the subject site was not listed before the early 1920s.

Fire Insurance Plans

Fire Insurance Plans (FIPs) from 1956 and 1963 were reviewed for the area of the subject property. The 1963 FIPs show the subject site building in its current configuration. The building is listed as a storage building for R.L. Crain Printers.

According to the FIPs, surrounding land use in 1956 and 1963 was a combination of commercial, residential, and industrial use. The FIPs identified the following Potentially Contaminating Activities within the Phase I study area:

Table 1: FIPs – Potentially Contaminating Activities in Phase I Study Area			
Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
161 Spruce Street	F.W. Argue Limited Garage, 1 UST.	30 m north	N
Champagne Avenue North, north of Elm Street	Ottawa Transportation Commission Bus Garage	100 m north	N
74 Champagne Avenue North	F.W. Argue Limited Coal Yard, 1 UST	75 m north	N
128 Champagne Avenue North	W.C. Edwards Lumber Yard, 1 UST	30 m west	N
53-63 Breezehill Avenue	Bruce Coal Co. Ltd. and auto repairs	170 m southwest	N

Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
1000-1002 Somerset Street West	Central Ordnance Depot warehouse	30 m south	N

Off-site PCAs identified within the Phase I study area were not considered to represent Areas of Potential Environmental Concern with respect to the subject site based on their interpreted downgradient and/or crossgradient location with respect to the subject site, separation distance, and/or redevelopment since our previous investigative work.

FIPs for other years were not available for review. FIPs are not appended to this report due to copyright issues.

City of Ottawa Street Directories

City directories at the National Archives were reviewed in approximate 10 year intervals from 1880 (prior to initial development of the area of the subject site) to 2008 as part of the Phase I ESA.

Based on the directories, the subject site was first listed as Ottawa Stair Works Ltd. in 1921. The site was listed as Ottawa Stair Works until the 1930s, after which it was listed as Baker Brothers Sash and Door Factory until the 1950s. In the 1950s and 1960s, the site was listed as the Department of Veterans’ Affairs printing and stationery office, as well as storage for R.L. Crain printers. The site was listed as vacant in the late 1960s. Starting in the late 1970s, the site was listed both as 989 Somerset Street West (Robert Tape Machine Shop) and 160 Spruce Street (Ultralux Paints). 989 Somerset Street West was not listed in the 2008 directories.

The city directories identified the following Potentially Contaminating Activities within the Phase I study area:

Table 2: FIPs – Potentially Contaminating Activities in Phase I Study Area

Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
1-3 Breezehill Avenue	Automotive service garage (1950s-1960s)	200 m west	N
45 Breezehill Avenue	Canadian Oil Companies Ltd. (1930s-1940s)	190 m west	N

Address	Property Use / Observations	Distance / Orientation from site	Potential Environmental Concern (Y / N)
47 Breezehill Avenue	Takaki Automotive (1980s-2000s)	170 m west	N
55 Breezehill Avenue	Automotive Service Garage (1960s-2000s)	180 m southwest	N
53 Breezehill Avenue	Bruce Fuels yard (1940s-1970s)	180 m southwest	N
270 City Centre Avenue	Browns Cleaners (2000s)	30 m west	N
73 Preston Street	H&P Cleaners (1990s)	220 m east	N
886-896 Somerset Street West	Automotive service garage (1930s-present), retail fuel outlet (1930s-1960s)	210 m east	N
963-965 Somerset Street West	Valley Chemicals (1950s-1970s)	40 m east	N
145 Spruce Street	R.L. Crain Printers (1910s-1930s)	30 m north	N
880 Wellington Street West	Printers, chemical supply, F.W. Argue oil dealer (1960s-1980s)	75 m northeast	N

Given the separation distances and/or downgradient location of the PCAs with respect to the subject site, and the results of the previous subsurface investigations at the subject site, the above-noted PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Chain of Title

Paterson verified the current land title for the subject property with Read Abstracts Limited. The title search predates 1875, as per MOE standards.

According to the chain of title dated January 27, 2014, the current owner of the subject property is 1597655 Ontario Inc. The chain of title indicates that the first registered owner of the subject property was the Estate of John Sparks, and that the property was owned by a series of individuals until its acquisition by Katherine McLaughlin, Ellen McLaughlin, and Ottawa Stair Works Limited in 1921. It is our interpretation that the subject site was developed with the current building in or around 1921.

The subject property was transferred to Louis Baker in 1937 and to Baker Brothers Company Limited in 1942. Based on the city directory search, Baker Brothers was a wood sash and door manufacturer. The property was transferred to Louis G. Lieff in 1945, to Dixon Van Lines Limited in 1958, and to Shenkman Properties Company Limited in 1968. The subject site was transferred to the current owner in 2004. The title search did not identify any Potentially Contaminating Activities or Areas of Potential Environmental Concern with respect to the subject site.

Current Plan of Survey

A plan of survey, consisting of a topographic survey prepared by Annis, O'Sullivan, Vollebekk Limited and dated July 5, 2013, was reviewed as part of this assessment. The survey plan shows the subject site in its current configuration.

4.2 Environmental Source Information

Environment Canada

A search of the National Pollutant Release Inventory (NPRI) was conducted electronically on December 12, 2013. The subject site and properties within the Phase I study area were not listed in the NPRI database.

PCB Inventory

A search of national PCB waste storage sites was conducted. No PCB waste storage sites are located within the Phase I study area.

Ontario Ministry of Environment (MOE) Instruments

A request was submitted to the MOE Freedom of Information office for information with respect to certificates of approval, permits to take water, certificates of property use or any other similar MOE issued instruments for the site. The MOE search did not return any records for the subject site.

MOE Coal Gasification Plant Inventory

The Ontario Ministry of Environment document titled "Municipal Coal Gasification Plant Site Inventory, 1991" was reviewed to reference the locations of former plants with respect to the site. No coal gasification plants were identified within the Phase I study area.

MOE Incident Reports

A request was submitted to the MOE Freedom of Information office for information with respect to records concerning environmental incidents, orders, offences, spills, discharges of contaminants or inspections maintained by the MOE for the site or adjacent properties. One incident report was returned for the subject site. The incident report consisted of a complaint stating that phenolic resin generated at the subject site was being disposed of in municipal curbside waste containers. No further information was available.

MOE Waste Management Records

A request was submitted to the MOE Freedom of Information office for information with respect to waste management records. Robert Tape Ltd. was listed in the records as a generator of emulsified oil waste (spent oil from milling machine). MOE records indicate that while this material was originally stored on-site in drums because of a lack of suitable disposal method, the material was later disposed of off-site by a qualified contractor (Safety Kleen). Based on the results of previous environmental investigations, the waste management records are not considered to represent an Area of Potential Environmental Concern with respect to the subject site.

MOE Submissions

A request was submitted to the MOE Freedom of Information office for information with respect to reports related to environmental conditions have been submitted to the MOE. No submissions were available for the subject site.

MOE Brownfields Environmental Site Registry

A search of the MOE Brownfields Environmental Site Registry was conducted as part of this assessment for the site, neighbouring properties and the general area of the site. One RSC was filed for 989 Somerset Street West and 160 Spruce Street (comprising the subject site and the adjacent property to the east, since redeveloped with residential dwellings). The RSC was filed by Paterson in 2004, and acknowledged by the MOE.

MOE Waste Disposal Site Inventory

The Ontario Ministry of Environment document titled "Waste Disposal Site Inventory in Ontario, 1991" was reviewed as part of the historical research. This document includes all recorded active and closed waste disposal sites, industrial manufactured gas plants and coal tar distillation plants in the Province of Ontario. Based on the available information, no waste disposal sites were present within the Phase I study area. Former waste disposal sites were located further to the north in the vicinity of Burnside Avenue, Bayview Avenue, and Slidell Street, but are not considered to have the potential to have impacted the subject site due to their downgradient location.

Areas of Natural Significance

A request was submitted to the Kemptville office of the Ontario Ministry of Natural Resources for any areas of natural significance and features within the Phase I study area on December 11, 2013. No areas of natural significance were identified within the Phase I study area. The MNR response is appended to this report.

Technical Standards and Safety Authority (TSSA)

The TSSA, Fuels Safety Branch in Toronto was contacted electronically on December 10, 2013 to inquire about current and former underground storage tanks, spills and incidents for the site and neighbouring properties. The TSSA search did not return any records for the subject site or properties within the Phase I study area. A copy of the TSSA correspondence is included in Appendix 2.

City of Ottawa Landfill Document

The document entitled "Old Landfill Management Strategy, Phase I – Identification of Sites, City of Ottawa", was reviewed. No former landfill sites were identified within the Phase I study area.

Previous Environmental Reports

The following environmental reports were reviewed as a part of this assessment:

- 'Limited Phase II Environmental Site Assessment, 160 Spruce Street, Ottawa, Ontario', prepared by John D. Paterson and Associates Limited, dated January 23, 2003.

- 'Phase I-II Environmental Site Assessment, 160 Spruce Street/989 Somerset Street West, Ottawa, Ontario', prepared by John D. Paterson and Associates Limited, dated January 29, 2004.
- 'Environmental Site Remediation Program, 158 Spruce Street, Ottawa, Ontario', prepared by John D. Paterson and Associates Limited, dated April 1, 2004.

The above reports summarize the investigative and remedial work undertaken at the subject site and adjacent property to the east in 2003 and 2004.

In January 2003, John D. Paterson completed a subsurface investigation at the subject site consisting of interior boreholes drilled through the floor slab of the subject site building. The purpose of the investigation was to assess the potential for soil contamination at the subject site as a result of its historic use as a machine shop and a printing business, and its use as a paint distributor. No visual or olfactory evidence of contamination was encountered in the soil samples. All test results were in compliance with the 1997 MOE Table B standards.

In 2004, Paterson completed a Phase I-II ESA at the subject site and adjacent properties to the east. The subject site building was being used as a warehouse for Ultralux Paints at the time of the assessment, and had previously been used as a machine shop (second floor), a paint distributor, and as a warehouse for Crain Printers. The site building was heated by gas at the time of the assessment. A Phase II ESA was recommended to assess the potential for contamination due to the site's current and past uses.

Two (2) boreholes were drilled to the north of the subject building, and groundwater monitoring wells were installed in both boreholes. All soil and groundwater samples were in compliance with the 1997 MOE Table B standards.

In 2004, an environmental site remediation program was conducted on the property immediately to the east of the subject site concurrently with its redevelopment. An area of soil impacted with petroleum hydrocarbons was encountered, and all contaminated soil encountered (approximately 67 metric tonnes) was excavated and hauled to an approved waste disposal facility. Confirmatory samples from the excavation were submitted for analytical testing and were found to be in compliance with the 2004 MOE Table 3 standards.

City of Ottawa Historical Land Use Inventory (HLUI) Database

A search of the City of Ottawa’s Historical Land Use Inventory (HLUI) database was conducted as part of this assessment. The HLUI search returned four (4) records with respect to the subject site:

- R.L. Crain Limited (platemaking, typesetting, and bindery industry), 1948-1964.
- Robert Tape Limited (machine shop industry), 1970s-2005.
- Baker Brothers Sash and Door Factory (sash, door, and other millwork industries), 1940s-1950s.
- Ottawa Stairworks Limited (other wood industries), 1910s-1930s.

The presence of the machine shop and printer at the subject site are considered to represent potentially contaminating activities; however, based on the findings of previous environmental reports at the subject site, these past uses have not impacted the subject property.

The HLUI search returned 44 records within 500 m of the subject site. Upon review of the HLUI search information with respect to the list of Potentially Contaminating Activities identified under O.Reg. 153/04 as amended by O.Reg. 269/11, 13 of the HLUI search results were considered to represent Potentially Contaminating Activities. HLUI search results are summarized below:

Table 3: HLUI – Potentially Contaminating Activities in Phase I Study Area					
HLUI #	Address	Listed Activity	Years Listed	Distance / Orientation from site	PEC (Y / N)
3972	1010 Somerset Street West	Dept. Of Supply and Services (commercial printing)	1950s-1980s	30 m south	N
2096	6 Champagne Avenue North	Browns Cleaners	1990s-2000s	30 m west	N
2600	Wellington Street	Canadian Pacific Railway Yard	1901-1956	Approx. 100 m northwest	N
4105	Wellington Street	Jules Patry Limited (other chemical products)	1990s-2000s	100 m west	N
5422	128 Champagne Avenue	F.W. Argue (fuel, lumber, coal)	1930s-1960s	30 m west	N

HLUI #	Address	Listed Activity	Years Listed	Distance / Orientation from site	PEC (Y / N)
5312	161 Spruce Street	F.W. Argue (fuel, lumber, coal)	1940s-1960s	30 m north	N
1050	145 Spruce Street	Alexander Battery Corporation	2000s	30 m north	N
14243	145 Spruce Street	Union Engraving Co. Ltd.	1980s-2000s	30 m north	N
3825	164 Elm Street	Mansfield and Rodney Printers Co. Ltd.	1980s-2000s	50 m north	N
15090	158 Spruce Street	National Drug and Chemical Co. Of Canada Ltd.	1960s-1970s	30 m east	N
8804	148 Spruce Street	Montreal-Ottawa Express Ltd.	1940s-1960s	30 m east	N
14550	Somerset Street West	Valley Chemicals (paint and varnish)	1950s-1990s	40 m east	N
6309	969 Somerset Street West	Genesove Press Limited	1960s	30 m east	N

Based on separation distance, downgradient and/or crossgradient location, redevelopment of many of the above noted sites, and the results of previous environmental reports, the results of the HLUI are not considered to identify any new Areas of Potential Environmental Concern with respect to the subject site.

4.3 Physical Setting Sources

Aerial Photographs

Historical air photos from the National Air Photo Library were reviewed in approximate ten (10) year intervals. The review period dates back to the first available air photos for the site. Based on the review, the following observations have been made:

- 1928 The subject building is present in its current configuration. An additional structure is present around the perimeter of the subject property, with another small structure present immediately to the east of the subject building. Somerset Street West, Champagne Avenue North/City Centre Avenue, and Spruce Street are present in their current configurations. Land to the east and south of the subject site appears to be vacant. A lumber yard and rail line are present to the west, and the land to the north appears to be under development.

- 1958 The peripheral structures on the subject site appear to have been demolished. The subject building is still present in its current configuration. Properties to the north and east have been developed with commercial and residential buildings. To the south of Somerset Street West, the present-day warehouse building has been developed.
- 1966 No significant changes have been made to the subject site. A commercial building has been constructed at the adjacent property to the east. The former lumber yard to the west has been redeveloped with the present-day City Centre commercial buildings, although the office building from the lumber yard remains.
- 1976 No significant changes have been made to the subject site or neighbouring properties.
- 1980 No significant changes have been made to the subject site or neighbouring properties.
- 1995 No significant changes have been made to the subject site. An addition has been added to the commercial building to the east. No other significant changes have been made to neighbouring properties.
- 2002 (City of Ottawa Website) No significant changes have been made to the subject site or neighbouring properties.
- 2005 (City of Ottawa Website) No significant changes have been made to the subject site. The commercial building to the east and several residential dwellings on the south side of Spruce Street east of the site have been demolished and redeveloped with residential dwellings.
- 2011 (City of Ottawa Website) No significant changes have been made to the subject site or surrounding properties.

Laser copies of selected aerial photographs reviewed are included in Appendix 1.

Topographic Maps

Topographic maps were obtained from Natural Resources Canada – The Atlas of Canada website, the City of Ottawa website, and the topographical plan prepared by Annis, O’Sullivan, Vollebekk Ltd. The topographic maps indicate that the elevation of the subject site is approximately 55 to 58 m ASL, and that the regional topography in the general area of the site slopes gradually downward to the north, towards the Ottawa River. According to the maps, the nearest water body is the Ottawa River, located approximately 600 m to the north of the site. An illustration of the referenced topographic map is presented on Figure 2 – Topographic Map, appended to this report.

Physiographic Maps

The Ontario Geological Survey publication ‘The Physiography of Southern Ontario, Third Edition’ was reviewed as a part of this assessment. According to the publication and attached mapping, the site is situated within the Ottawa Valley Clay Plains physiographic region, described as “clay plains interrupted by ridges of rock or sand”. Mapping shows the subject site as situated on an area of shallow till and rock ridges.

Geological Maps

The Geological Survey of Canada website on the Urban Geology of the National Capital Area and the borehole logs from the previous subsurface investigations at the subject site were consulted as part of this assessment. Based on this information, bedrock in the area of the site consists of upper Ordovician shale of the Billings Formation. A bedrock fault is present to the northwest of the subject site, with bedrock consisting of middle Ordovician interbedded limestone and shale of the Verulam Formation beyond. Overburden consists of glacial till, with practical refusal to augering and/or sampling encountered at 1.6 to 3.4 m below existing grade.

Water Well Records

A search of the MOE's web site for all drilled well records within 250 m of the subject site was conducted on October 15, 2013. The search returned 58 well records within the Phase I study area, none of which were located on the subject property. Based on drilling dates and construction details, two (2) of these wells appear to be water wells drilled between 1963 and 1975. The remaining wells appear to be monitoring wells drilled by others between 2006 and 2009, and are located in the vicinity of the Brown's Cleaners building at 255 City Centre Avenue. Given the presence of municipal water services within the subject area, it is our interpretation that there are currently no drinking water wells located within the Phase I study area.

Water Bodies and Areas of Natural Significance

No creeks, rivers, streams, lakes or any other water body was identified in the Phase I study area. The majority of the study area consists of residential dwellings, commercial businesses, and roads. Past known land use in the study area is residential, industrial, and commercial. The Ottawa River is the closest significant water body and is present approximately 600 m north of the site. No areas of natural significance are known to exist within the Phase I study area.

5.0 INTERVIEWS

Property Owner Representative

Mr. Andrew Doran of Domicile Developments was interviewed during the Phase I ESA site visit on December 17, 2013. Mr. Doran was selected for interview based on his position as representative of Domicile Developments, owners of the subject site, and based on his familiarity with the subject site.

Mr. Doran was interviewed with respect to the history, operations, and condition of the subject site. Mr. Doran indicated that the subject site has been used as a retail space for A Fine Thing Antiques and Ultralux Paints, as well as for construction materials storage for Domicile, since his involvement with the site. The subject site has been heated by gas-fired boilers since Mr. Doran's involvement with the site. The interview did not identify any Potentially Contaminating Activities or Areas of Potential Environmental Concern with respect to the subject site.

The information obtained in this interview is consistent with site information obtained from other sources and is considered to be valid. This interview did not identify any PCAs or APECs with respect to the subject site.

Ultralux Paints Representative

A representative of Ultralux Paints was interviewed during the Phase I ESA site visit on December 17, 2013. The representative was selected for interview based on his knowledge of the operations of Ultralux Paints. The representative indicated that all solvents on-site were sold for retail and that no bulk storage, use, or disposal of solvents occurred on the subject site. The representative indicated that all excess paint was shipped back to Montreal and that no disposal of excess paint occurred on the subject site. The interview did not identify any Potentially Contaminating Activities or Areas of Potential Environmental Concern with respect to the subject site.

The information obtained in this interview is consistent with site information obtained from other sources and is considered to be valid. This interview did not identify any PCAs or APECs with respect to the subject site.

6.0 SITE RECONNAISSANCE

6.1 General Requirements

The site visit was conducted December 17, 2013. Weather conditions were overcast, with a temperature of approximately -20° C. Mr. Dan Arnott from the Environmental Department of Paterson Group conducted the site visit. In addition to the site, the uses of neighbouring properties within the Phase I study area were also assessed at the time of the site investigation. The site was snow covered at the time of the site visit.

6.2 Specific Observations at Phase I Property

Buildings and Structures

The subject site is occupied by a two-storey slab-on-grade reinforced concrete building with a flat tar-and-gravel roof. The building is currently heated by natural gas boilers.

No ASTs or evidence of USTs or fuels or chemical storage were observed on the exterior of the subject site.

Underground Utilities

Underground service locates were prepared for the subject site prior to the 2003 and 2004 subsurface investigations. Municipal water and sewer services are present along City Centre Avenue and Spruce Street. A gas line is present running in a northerly direction from the northeast corner of the subject building to Spruce Street. Electrical services to the subject site are overhead.

Site Features

The subject site is occupied by the aforementioned two-storey building and associated paved asphalt parking area to the north of the building. Site drainage consists of sheet flow to catch basins located along Spruce Street and City Centre Avenue. No significant areas of stained soil, vegetation, or pavement, stressed vegetation, soil disturbance, or grading were observed on-site.

No underground structures, drains, pits, or sumps were observed on the exterior of the subject site during the site visit. No drinking water wells or private sewage systems were observed on the subject property, nor are any expected to be present, as the site is located in a municipally-serviced area. No evidence of current or former railway or spur lines on the subject property were observed at the time of the site inspection. There were no unidentified substances observed on the subject site.

Interior Assessment

A general description of the interior of the building at 989 Somerset Street West/160 Spruce Street is as follows:

- Floors consist of wood on the second storey and poured concrete on the first storey, with 30 com vinyl floor tiles present in the second-storey bathroom and portions of Ultralux Paints.
- Walls consist primarily of poured concrete with some drywall and wood panelling.
- Ceilings consist of wood, drywall, and stippled plaster ceiling finish in Ultralux Paints.
- Lighting throughout the building is provided by fluorescent and incandescent fixtures.

As per a Designated Substance Survey previously completed at the subject site, asbestos-containing materials observed during the site visit include wall plaster and stippled plaster ceiling finish in the ground-floor office of Ultralux Paints, and pipe run and elbow insulation in the boiler room. These materials were observed to be in fair to good condition at the time of assessment.

No indoor aboveground storage tanks were observed on the interior of the subject property. No evidence of spills or staining was observed. No sumps, drains, or pits were observed at the subject site at the time of the site visit.

Neighbouring Properties

An inspection of the neighbouring properties was conducted from publicly accessible roadways at the time of the site inspection. Land use adjacent to the subject site was as follows:

- North - Spruce Street, followed by commercial buildings (office building, Oberon Press, building materials, boxing gym) and residential dwellings;

- South - Somerset Street West, followed by Government of Canada warehouses;
- East - Residential dwellings, followed by Preston Street;
- West - City Centre Avenue, followed by commercial and industrial buildings (Brown's Cleaners, City Centre commercial complex).

Although the presence of Brown's Cleaners to the northwest of the subject building represents a Potentially Contaminating Activity, given its separation distance and downgradient location with respect to the subject site, it is not considered to represent an Area of Potential Environmental Concern with respect to the subject site. Property use within the Phase I study area is shown on Drawing PE3185-2 - Surrounding Land Use.

7.0 REVIEW AND EVALUATION OF INFORMATION

7.1 Land Use History

The following table indicates the current and past uses of the site as well as associated potentially contaminating activities dating back to the first developed use of the site.

Table 4 - Land Use History – 989 Somerset Street West			
Time Period	Land Use	Potentially Contaminating Activities	Areas of Potential Environmental Concern
Prior to 1921	Vacant / Agricultural	None	None
1921-present	Commercial/ Industrial	Former machine shop on 2 nd floor.	No (has been addressed)

Potentially Contaminating Activities

As stated in the above table, potentially contaminating activities at the Phase I property include the historical presence of a machine shop on the second floor. These PCAs have been addressed by the previous subsurface investigations at the subject site and are not considered to represent Areas of Potential Environmental Concern with respect to the subject site. Additional Potentially Contaminating Activities were present within the Phase I study. Based on their separation distance and/or their inferred downgradient or cross-gradient location with respect to the subject site and previous investigations, the off-site PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Areas of Potential Environmental Concern

The historical Potentially Contaminating Activities identified at the subject site have been addressed by the previous subsurface investigations at the subject site and are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Contaminants of Potential Concern

No Areas of Potential Environmental Concern with respect to the subject site were identified, and as such, there are no Contaminants of Potential Concern for the subject site.

7.2 Conceptual Site Model

Geological and Hydrogeological Setting

The Phase I property is located in an area of glacial till overburden soils, with inferred bedrock surface in the vicinity of the subject site encountered between 1.6 and 3.4 m below existing ground surface. Based on the results of previous subsurface investigations at the site, the groundwater table is expected to be encountered in the bedrock underlying the glacial till unit.

Contaminants of Potential Concern

As per Section 7.1 of this report, there are no contaminants of potential concern.

Existing Buildings and Structures

The subject site is currently occupied by a multi-storey commercial building as outlined in Section 6.2 of this report.

Water Bodies

There are no water bodies on the subject site or within the Phase I study area. The closest water body is the Ottawa River, located approximately 600 m to the north of the site.

Areas of Natural Significance

No areas of natural significance were identified on the site or in the Phase I study area.

Drinking Water Wells

A search of the MOE water well database returned 58 water well records within the Phase I study area, of which two (2) are drinking water wells and the remainder are monitoring wells. Based on the availability of municipal water within the Phase I ESA study area, these drinking water wells are no longer considered to be in use.

Neighbouring Land Use

Neighbouring land use in the Phase I study area is currently commercial and residential.

Areas of Potentially Contaminating Activities and Potential Environmental Concerns

Potentially contaminating activities at the Phase I property include the historical presence of a machine shop on the second floor. These PCAs have been addressed by the previous subsurface investigations at the subject site and are not considered to represent Areas of Potential Environmental Concern with respect to the subject site. Additional Potentially Contaminating Activities were present within the Phase I study. Based on their separation distance and/or their inferred downgradient or cross-gradient location with respect to the subject site and previous investigations, the off-site PCAs are not considered to represent Areas of Potential Environmental Concern with respect to the subject site.

Assessment of Uncertainty and/or Absence of Information

The information available for review as part of the preparation of this Phase I ESA is considered to be sufficient to conclude that Potentially Contaminating Activities at the subject site have been addressed and do not represent Areas of Potential Environmental Concern. The presence of potentially contaminating activities was confirmed by a variety of independent sources. Likewise, multiple sampling events were completed, with sampling results consistently in compliance with MOE standards. As such, the conclusions of this report are not affected by uncertainty which may be present with respect to the individual sources.

8.0 CONCLUSIONS

Assessment

The results of the historical research, personal interviews, and site inspection indicated that all historical Potentially Contaminating Activities at the subject site and neighbouring properties have been addressed, and that there are no Areas of Potential Environmental Concern with respect to the subject site. Based on the results of this Phase I ESA, **in our opinion, a Phase II Environmental Site Assessment is not required for the property.**

9.0 STATEMENT OF LIMITATIONS

This Phase I - Environmental Site Assessment report has been prepared in general accordance with O.Reg. 153/04 as amended by O.Reg. 269/11, and meets the requirements of CSA Z768-01. The conclusions presented herein are based on information gathered from a limited historical review and field inspection program. The findings of the Phase I - ESA are based on a review of readily available geological, historical and regulatory information and a cursory review made at the time of the field assessment. The historical research relies on information supplied by others, such as, local, provincial and federal agencies and was limited within the scope-of-work, time and budget of the project herein.

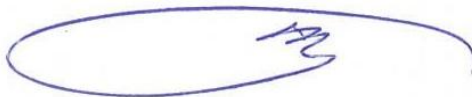
Should any conditions be encountered at the subject site and/or historical information that differ from our findings, we request that we be notified immediately in order to allow for a reassessment.

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

Paterson Group Inc.



Daniel J. Arnott, P.Eng.



Mark S. D'Arcy, P.Eng.



Report Distribution:

- Domicile Developments (9 copies)
- Paterson Group (1 copy)

10.0 REFERENCES

Federal Records

Air photos at the Energy Mines and Resources Air Photo Library.
National Archives.
Maps and photographs (Geological Survey of Canada surficial and subsurface mapping).
Natural Resources Canada – The Atlas of Canada.
Environment Canada, National Pollutant Release Inventory.
PCB Waste Storage Site Inventory.

Provincial Records

MOE Freedom of Information and Privacy Office.
MOE Municipal Coal Gasification Plant Site Inventory, 1991.
MOE document titled “Waste Disposal Site Inventory in Ontario”.
MOE Brownfields Environmental Site Registry.
Office of Technical Standards and Safety Authority, Fuels Safety Branch.
MNR Areas of Natural Significance.
MOE Water Well Inventory.
Chapman, L.J., and Putnam, D.F., 1984: ‘The Physiography of Southern Ontario, Third Edition’, Ontario Geological Survey Special Volume 2.

Municipal Records

City of Ottawa Document “Old Landfill Management Strategy, Phase I - Identification of Sites.”, prepared by Golder Associates, 2004.
The City of Ottawa Historical Land Use Inventory.
Intera Technologies Limited Report “Mapping and Assessment of Former Industrial Sites, City of Ottawa”, 1988.
The City of Ottawa eMap website.

Local Information Sources

Chain of Title obtained through Read Abstracts Limited, January 2014.
Current Plan of Survey, prepared by Annis, O’Sullivan, Vollebekk Limited, July 2013.
‘Limited Phase II Environmental Site Assessment, 160 Spruce Street, Ottawa, Ontario’, prepared by John D. Paterson, dated January 23, 2003.
‘Phase I-II Environmental Site Assessment, 160 Spruce Street/989 Somerset Street West, Ottawa, Ontario’, prepared by John D. Paterson and Associates, dated January 29, 2004.

'Environmental Site Remediation Program, 158 Spruce Street, Ottawa, Ontario',
prepared by John D. Paterson and Associates, dated April 1, 2004.
Personal Interviews.

Public Information Sources

Google Earth.

Google Maps/Street View.

FIGURES

FIGURE 1 – KEY PLAN

FIGURE 2 – TOPOGRAPHIC MAP

DRAWING PE3185-1 – SITE PLAN

DRAWING PE3185-2 – SURROUNDING LAND USE

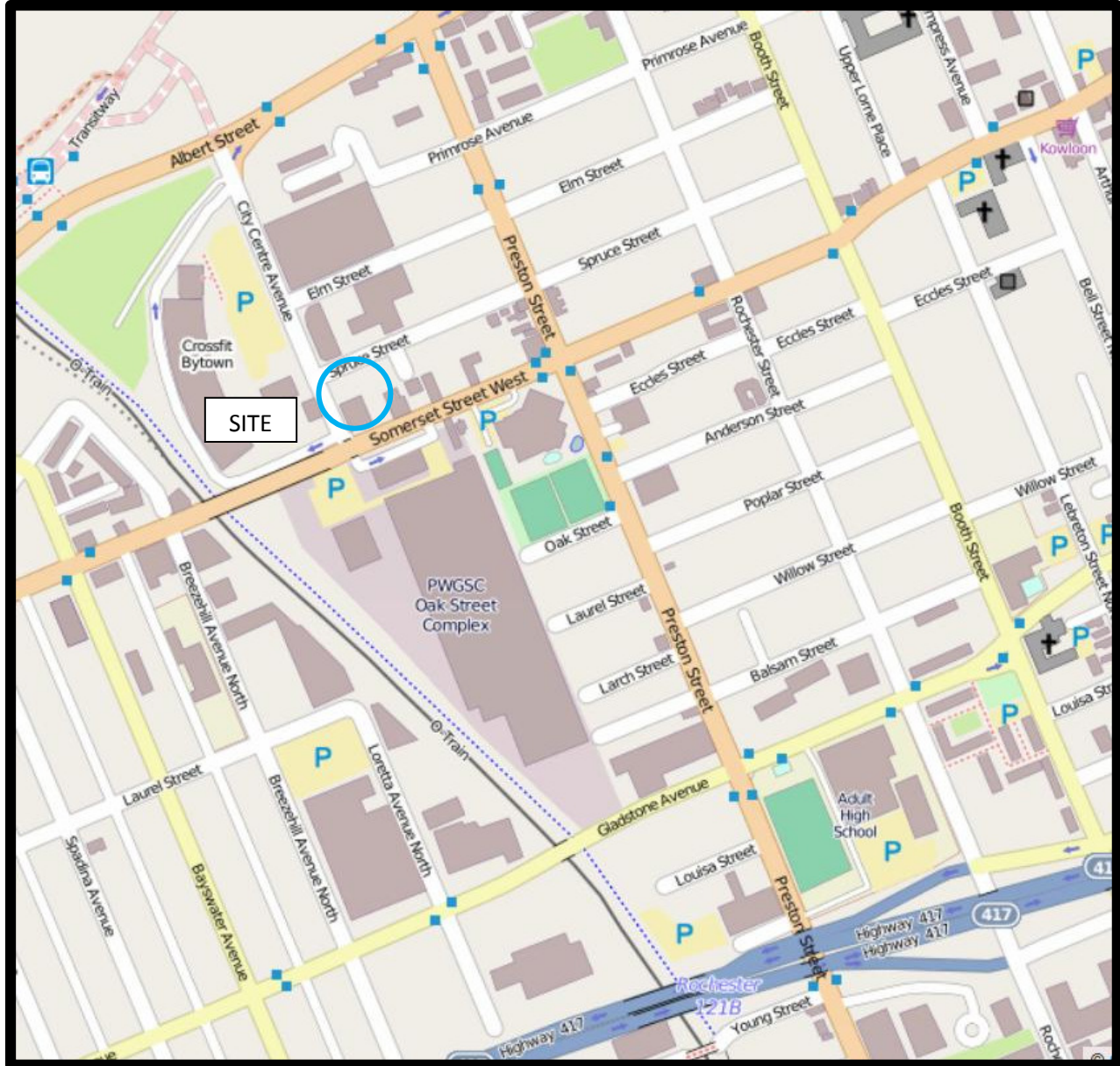


FIGURE 1
KEY PLAN

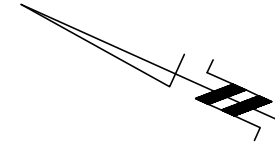


FIGURE 2
TOPOGRAPHIC MAP

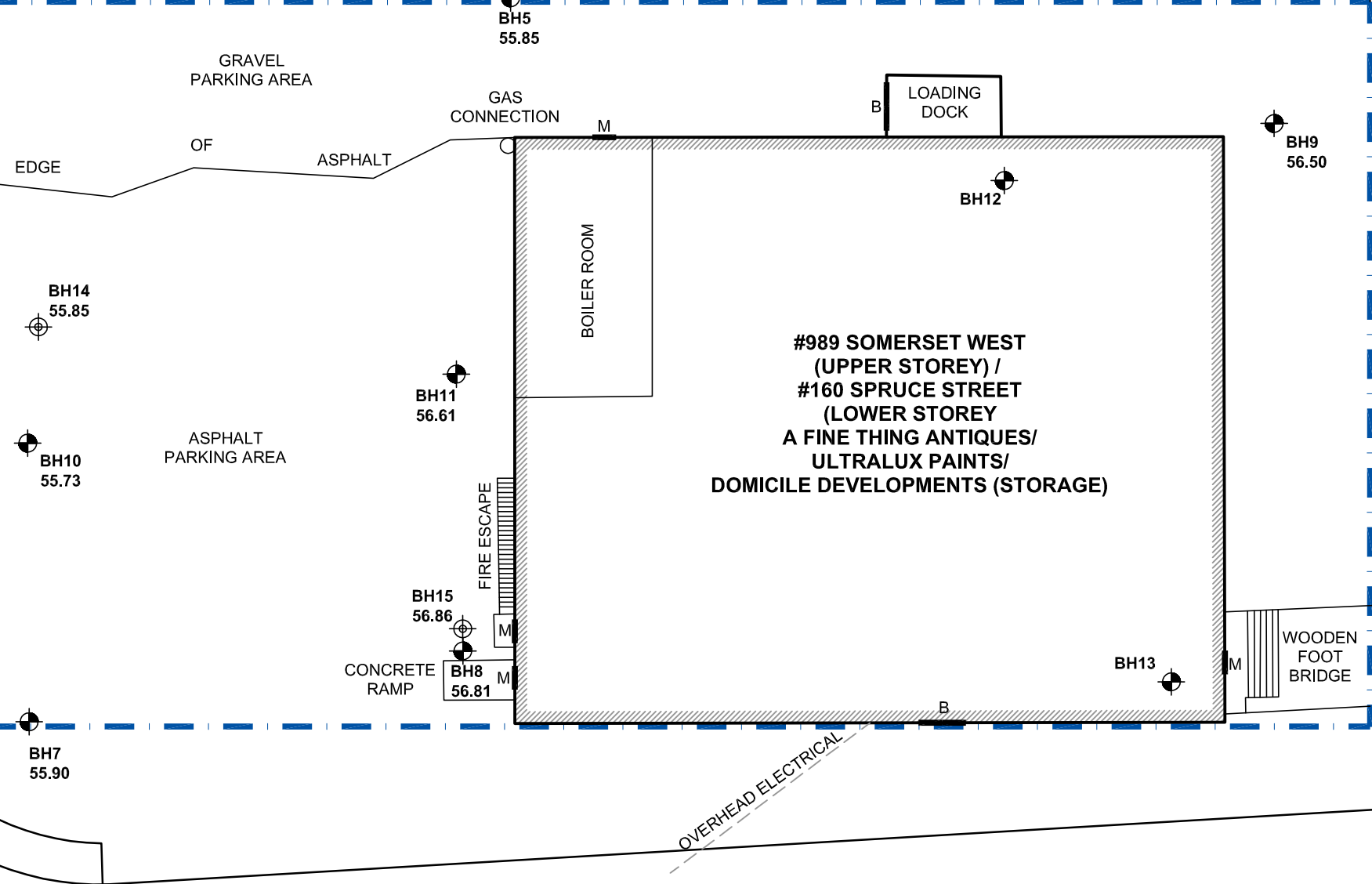
MH - TBM
55.53

SPRUCE STREET

RESIDENTIAL



SIDEWALK



SOMERSET STREET WEST

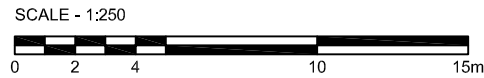
CITY CENTRE AVENUE

#989 SOMERSET WEST
(UPPER STOREY) /
#160 SPRUCE STREET
(LOWER STOREY
A FINE THING ANTIQUES/
ULTRALUX PAINTS/
DOMICILE DEVELOPMENTS (STORAGE)

LEGEND

- M | MAN DOOR
- B | BAY DOOR
- ⊕ BOREHOLE LOCATION (PATERSON, 2003/2004)
- ⊕ MONITORING WELL LOCATION (PATERSON, 2004)
- 55.90 GROUND SURFACE ELEVATION

TBM - TOP OF MANHOLE, GEODETIC ELEVATION 55.53 m, AS SHOWN ON PLAN DATED MARCH 21, 1991, PROVIDED BY FARLEY, SMITH & MURRAY SURVEYING LTD.



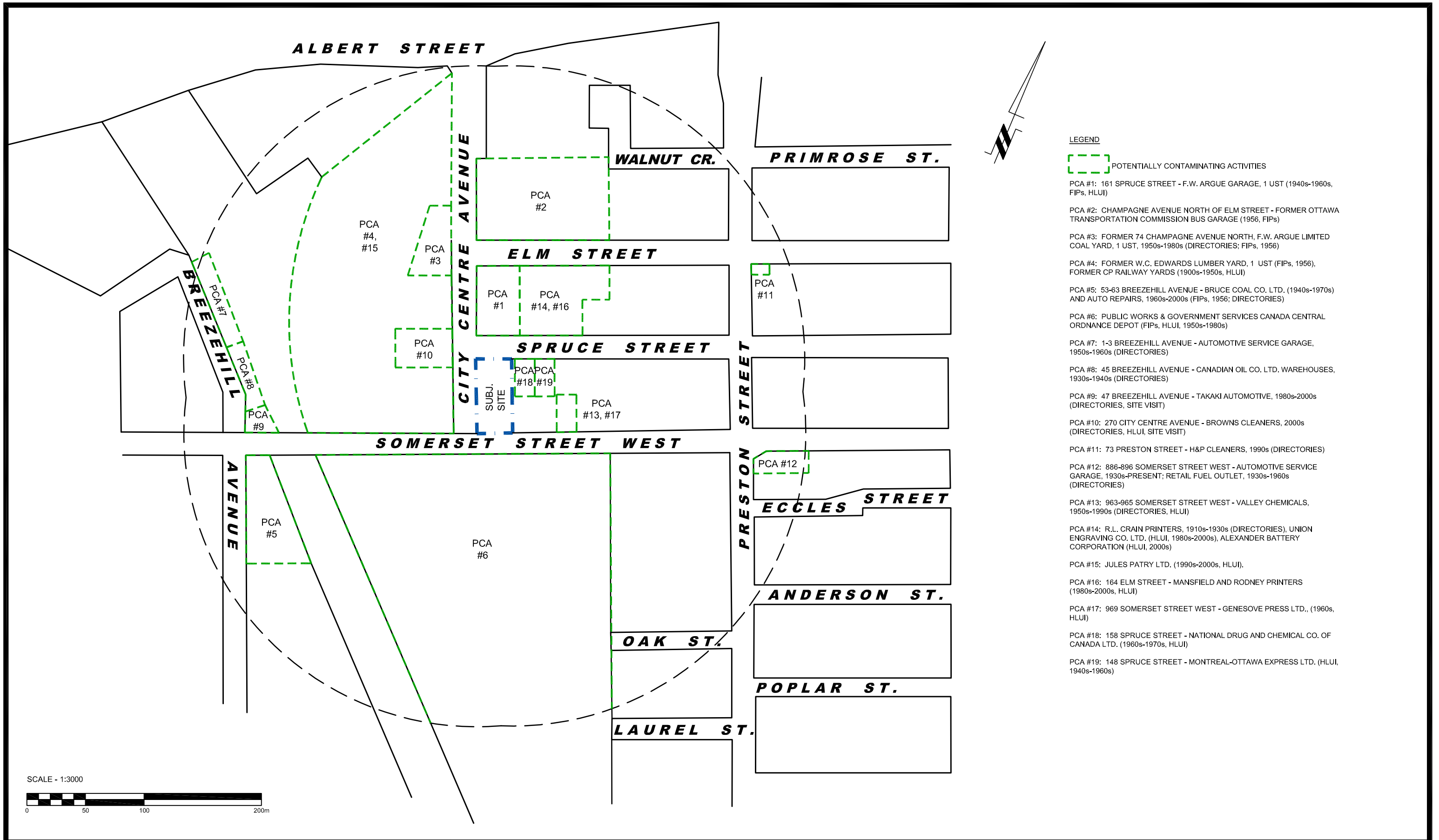
patersongroup
consulting engineers
154 Colonnade Road South, Ottawa, Ontario K2E 7J5

Scale:	1:250
Des.:	DJA
Dwn:	DJA
Chkd:	MSD

DOMICILE DEVELOPMENTS
PHASE I - ENVIRONMENTAL SITE ASSESSMENT
989 SOMERSET STREET WEST
OTTAWA, ONTARIO

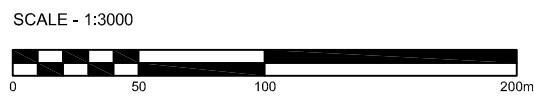
SITE PLAN

Dwg. No.	PE3185-1
Report No.:	PE3185-1
Date:	12/2013



LEGEND

- POTENTIALLY CONTAMINATING ACTIVITIES
- PCA #1: 161 SPRUCE STREET - F.W. ARGUE GARAGE, 1 UST (1940s-1960s, FIPs, HLUI)
- PCA #2: CHAMPAGNE AVENUE NORTH OF ELM STREET - FORMER OTTAWA TRANSPORTATION COMMISSION BUS GARAGE (1956, FIPs)
- PCA #3: FORMER 74 CHAMPAGNE AVENUE NORTH, F.W. ARGUE LIMITED COAL YARD, 1 UST, 1950s-1980s (DIRECTORIES; FIPs, 1956)
- PCA #4: FORMER W.C. EDWARDS LUMBER YARD, 1 UST (FIPs, 1956), FORMER CP RAILWAY YARDS (1900s-1950s, HLUI)
- PCA #5: 53-63 BREEZEHILL AVENUE - BRUCE COAL CO. LTD. (1940s-1970s) AND AUTO REPAIRS, 1960s-2000s (FIPs, 1956; DIRECTORIES)
- PCA #6: PUBLIC WORKS & GOVERNMENT SERVICES CANADA CENTRAL ORDNANCE DEPOT (FIPs, HLUI, 1950s-1980s)
- PCA #7: 1-3 BREEZEHILL AVENUE - AUTOMOTIVE SERVICE GARAGE, 1950s-1960s (DIRECTORIES)
- PCA #8: 45 BREEZEHILL AVENUE - CANADIAN OIL CO. LTD. WAREHOUSES, 1930s-1940s (DIRECTORIES)
- PCA #9: 47 BREEZEHILL AVENUE - TAKAKI AUTOMOTIVE, 1980s-2000s (DIRECTORIES, SITE VISIT)
- PCA #10: 270 CITY CENTRE AVENUE - BROWNS CLEANERS, 2000s (DIRECTORIES, HLUI, SITE VISIT)
- PCA #11: 73 PRESTON STREET - H&P CLEANERS, 1990s (DIRECTORIES)
- PCA #12: 886-896 SOMERSET STREET WEST - AUTOMOTIVE SERVICE GARAGE, 1930s-PRESENT; RETAIL FUEL OUTLET, 1930s-1960s (DIRECTORIES)
- PCA #13: 963-965 SOMERSET STREET WEST - VALLEY CHEMICALS, 1950s-1990s (DIRECTORIES, HLUI)
- PCA #14: R.L. CRAIN PRINTERS, 1910s-1930s (DIRECTORIES), UNION ENGRAVING CO. LTD. (HLUI, 1980s-2000s), ALEXANDER BATTERY CORPORATION (HLUI, 2000s)
- PCA #15: JULES PATRY LTD. (1990s-2000s, HLUI),
- PCA #16: 164 ELM STREET - MANSFIELD AND RODNEY PRINTERS (1980s-2000s, HLUI)
- PCA #17: 969 SOMERSET STREET WEST - GENESOVE PRESS LTD., (1960s, HLUI)
- PCA #18: 158 SPRUCE STREET - NATIONAL DRUG AND CHEMICAL CO. OF CANADA LTD. (1960s-1970s, HLUI)
- PCA #19: 148 SPRUCE STREET - MONTREAL-OTTAWA EXPRESS LTD. (HLUI, 1940s-1960s)



<p>patersongroup consulting engineers 154 Colonnade Road South, Ottawa, Ontario K2E 7J5</p>	Scale:	1:3000	<p>DOMICILE DEVELOPMENTS</p> <p>PHASE I ENVIRONMENTAL SITE ASSESSMENT</p> <p>989 SOMERSET STREET WEST</p> <p>OTTAWA, ONTARIO</p>	<p>SURROUNDING LAND USE</p>	Dwg. No.	PE3185-2
	Des.:	DJA			Report No.	PE3185-1
	Dwn.:	MPG			Date:	12/2013
	Chkd.:	MSD				

APPENDIX 1

CHAIN OF TITLE

CURRENT PLAN OF SURVEY

AERIAL PHOTOGRAPHS

SITE PHOTOGRAPHS



READ Abstracts Limited

331 Cooper Street, Suite 300, Ottawa, Ontario K2P 0A4

Email: search@readsearch.com

Tel.: 613-236-0664

Fax: 613-236-3677

ENVIRONMENTAL SEARCH

January 27, 2014

Patersongroup
Attn: Daniel J. Arnott

Re: PE3185

BRIEF DESCRIPTION OF LAND:

989 Somerset Street West
Part of Lots 4 and 5, Block A, Plan 73, North Side Somerset St.; Part of Lots 4 and 5,
Block A, Plan 73, South Side Spruce St.
PIN: 04107-0124

LAST REGISTERED OWNER: 1597655 ONTARIO INC.

CHAIN OF TITLE:

Plan 73 registered December 10, 1845
By Estate of John Sparks

Deed NP4181 registered December 16, 1845
From Estate of John Sparks to Mary Sparks

Deed NP13324 registered May 11, 1888
From Thomas Magee (Estate of Mary Sparks) to John R. Booth

Deed CR81204 registered May 1, 1907
From John R. Booth to John McLaughlin

Deed CR106544 registered November 3, 1921
From John McLaughlin to Katherine McLaughlin and Ellen McLaughlin and Ottawa
Stairs Works Ltd.

Deed CR160589 registered November 3, 1921
From Katherine McLaughlin to Ottawa Stairs Works Ltd.

Deed CR160815 registered November 22, 1921
From Ellen McLaughlin to Ottawa Stairs Works Ltd.

Deed CR220945 registered April 15, 1937
From Nelson W. Cleary (court appointed trustee for Ottawa Stairs Works Ltd.) to Louis Baker

Deed CR239734 registered September 26, 1942
From Louis Baker to Baker Brothers Company Limited

Deed CR255820 registered November 27, 1945
From Baker Brothers Company Limited to Louis G. Lief

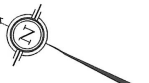
Deed CR381707 registered December 10, 1958
From Louis G. Lief to Dixon Van lines Limited

Deed CR543094 registered June 3, 1968
From Dixon Van Lines Limited to Shenkman Properties Company Limited

Lease CR585598 registered December 31, 1970
From Shenkman Properties Company Limited to Murray Citron, in trust

Deed NS54486 registered June 1, 1979
From Shenkman Corporation Ltd. To 415588 Ontario Limited.

Deed OC302543 registered February 24, 2004
From 415588 Ontario Limited to 1597655 Ontario Inc.



LOT 147
REGISTERED PLAN 13

Scale 1:200
0 2.0 4.0 6.0 8.0 Metres

Metric
DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND
CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

Surveyor's Certificate
I CERTIFY THAT:
1. This survey and plan are correct and in accordance with the Surveyors Act, the Surveyors Regulations, the Land Titles Act and the regulations made under them.
2. The survey was completed on the 2nd day of July, 2013.
[Signature]
Duff
Attorney Group
Ontario Land Surveyor

TOPOGRAPHICAL PLAN OF SURVEY OF
PART OF LOT 4 AND ALL OF LOT 5
(South Spruce Street Lots) AND
ALL OF LOT 4 AND 5
(North Somerset Street West)
REGISTERED PLAN 73
CITY OF OTTAWA

Prepared by Annis, O'Sullivan, Vollebek Ltd.
Field Work Completed July 2, 2013

Notes & Legend

- Denotes
- Survey Monument Planted
 - Survey Monument Found
 - SIB Standard Iron Bar
 - SSIB Short Standard Iron Bar
 - IB Iron Bar
 - CC Cut Cross
 - (WIT) Witness
 - Meas. Measured
 - Annis, O'Sullivan, Vollebek Ltd.
 - (AOG) Registered Plan 73
 - (P1) Plan 4R-10273
 - (P2) (AOG) Plan dated June 15, 2011
 - (P4) (AOG) Plan dated April 19, 2004
 - (P5) (AOG) Plan dated May 6, 1989
 - (P6) (AOG) Coordinates File for 2970-02
 - (P7) (AOG) Plan dated December 18, 2002
 - MH-B Maintenance Hole (Bell)
 - MH Maintenance Hole (Underground)
 - FH Fire Hydrant
 - WV Water Valve
 - Catch Basin
 - Catch Basin Inlet
 - T/G Top of Grate
 - ∅ Diameter
 - +55.00 Location of Elevations
 - +65.00 Top of Curb Elevations
 - T/S Top of Spindle
 - C/L Centreline
 - UP Utility Pole
 - LS Light Standard
 - Property Line

ASSOCIATION OF ONTARIO
LAND SURVEYORS
PLAN SUBMISSION FORM
187816

THIS PLAN IS NOT VALID UNLESS
IT IS AN EMBOSSED ORIGINAL
COPY ISSUED BY THE SURVEYOR
IN ACCORDANCE WITH
REGULATION 1026, SECTION 29 (2)

Distances shown on this plan are ground distances and can be converted to grid distances by multiplying by the combined scale factor of 0.9998.

Bearings are MTM grid, derived from observed reference points A and B, shown hereon, having a bearing of N86°21'40"E and are referred to the Central Meridian of MTM Zone 9 (76°30' West Longitude) NAD 83 (original).

For bearing comparisons, a rotation of 0°30'20" counter-clockwise was applied to bearings on Plan 4R-10273.

Coordinate values are to urban accuracy in accordance with O. Reg. 216/10

- Point A Northing 6030045.52 Easting 366099.08
- Point B Northing 6030063.01 Easting 365140.87

Caution: Coordinates current, in themselves, be used to re-establish corners or boundaries shown on this plan.

SITE AREA = 2553.7 m²

ELEVATION NOTES

- Elevations shown are referred to geodetic datum.
- It is the responsibility of the user of this information to verify that the job benchmark has not been altered or disturbed and that its relative elevation and description agrees with the information shown on this drawing.

UTILITY NOTES

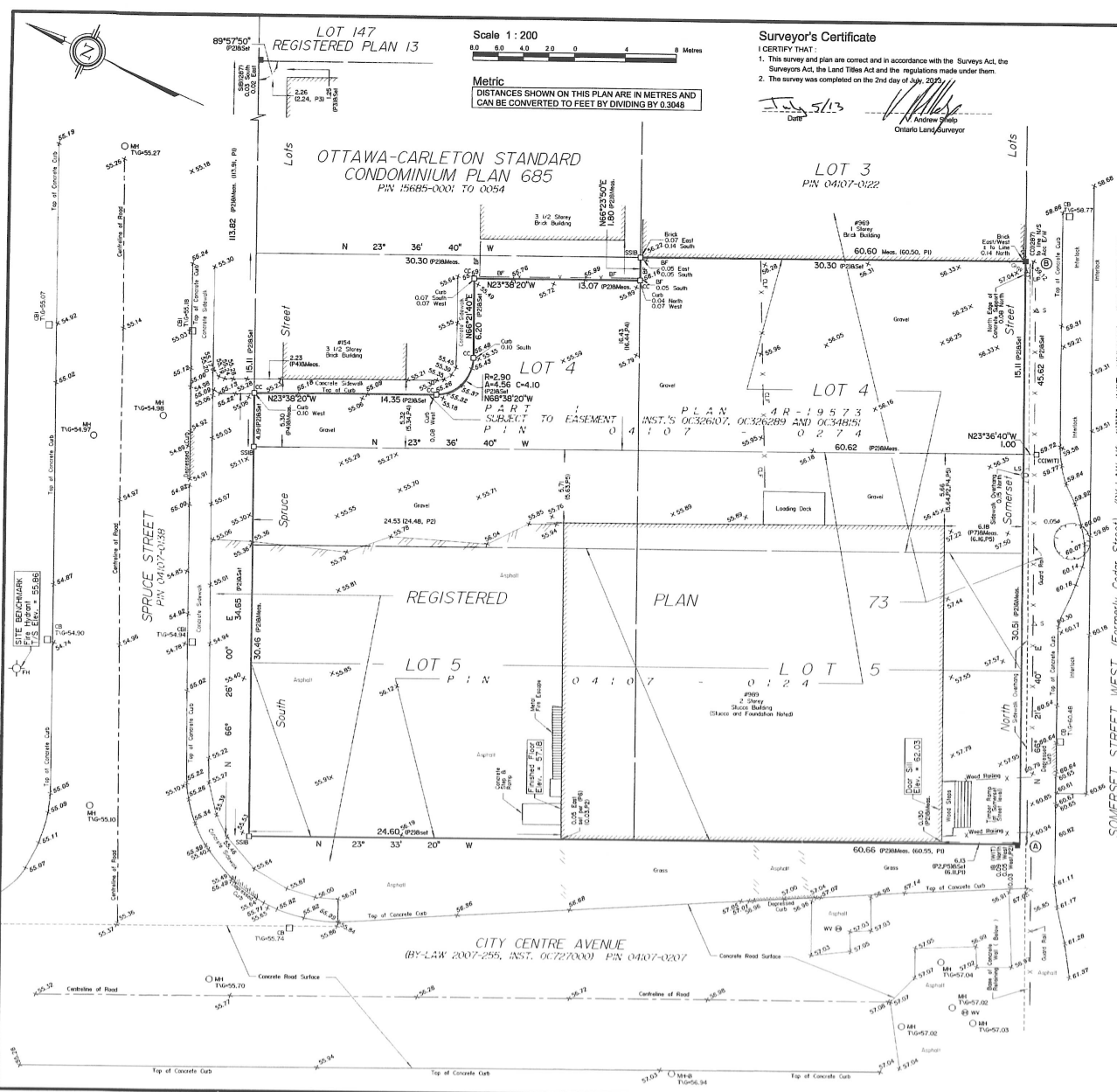
- This drawing cannot be accepted as acknowledging all of the utilities and it will be the responsibility of the user to contact the respective utility authorities for confirmation.
- Only visible surface utilities were located.
- A field location of underground plant by the pertinent utility authority is mandatory before any work involving breaking ground, probing, excavating etc.

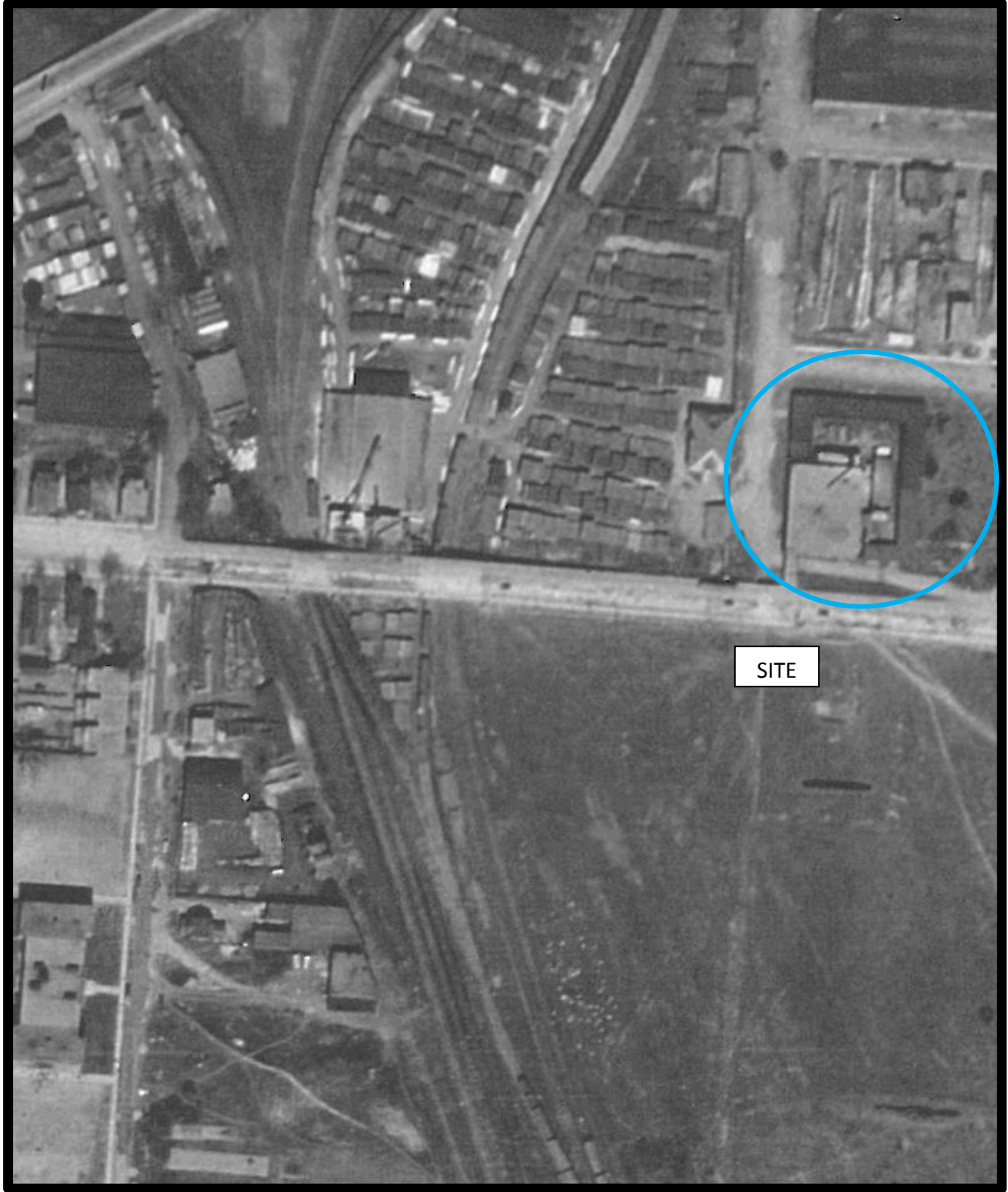
© Annis, O'Sullivan, Vollebek Ltd. 2013. THIS PLAN IS PROTECTED BY COPYRIGHT.

ANNIS, O'SULLIVAN, VOLLEBEK LTD.
14 Concourse Gate, Suite 500
Nepean, Ont. K2E 1S6
Phone: (613) 727-0850 / Fax: (613) 727-1079
Email: News@annis.com

Ontario
Land Surveyors

Job No. 1307-13 Doc No. L14.5-0273 Top F

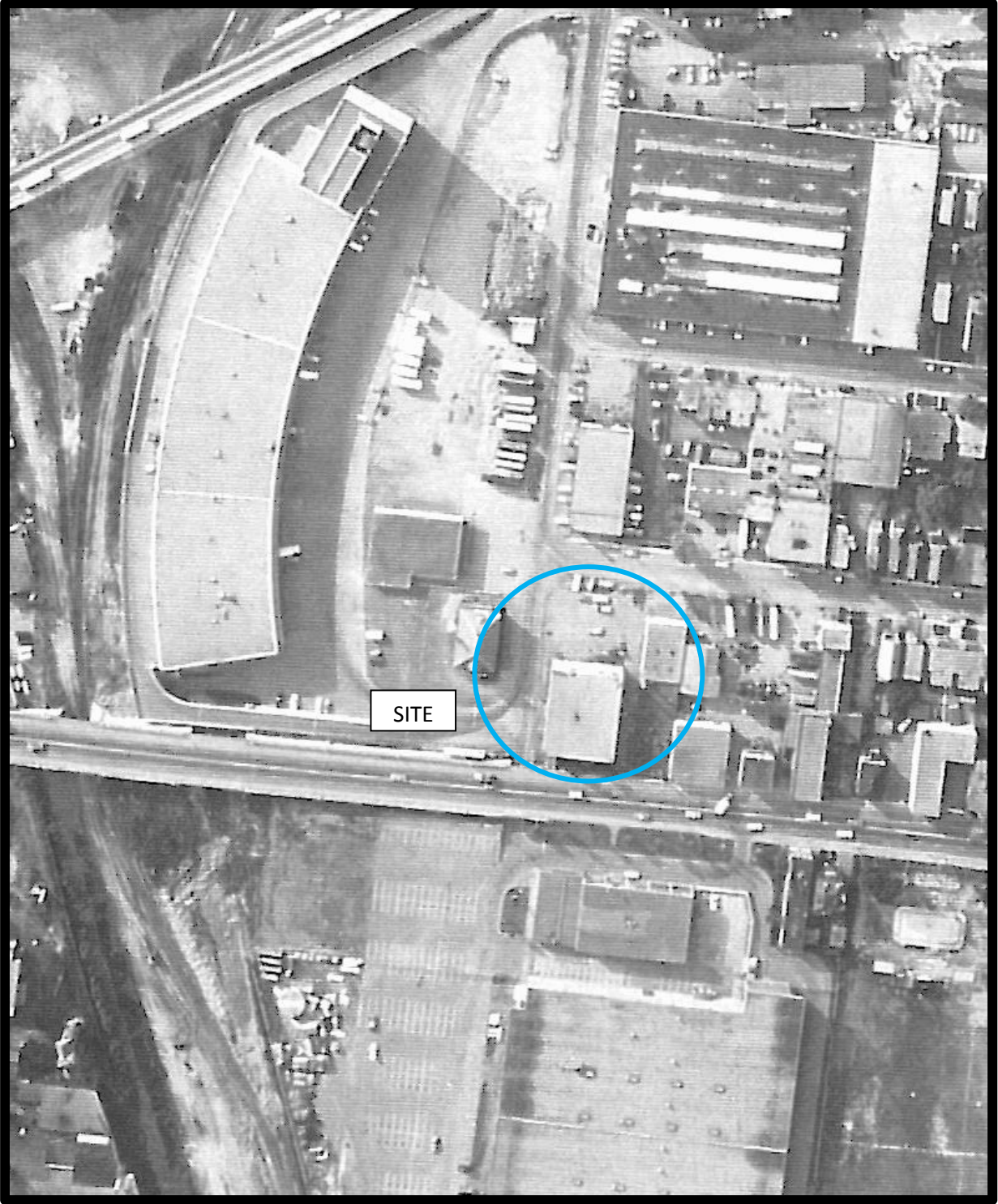




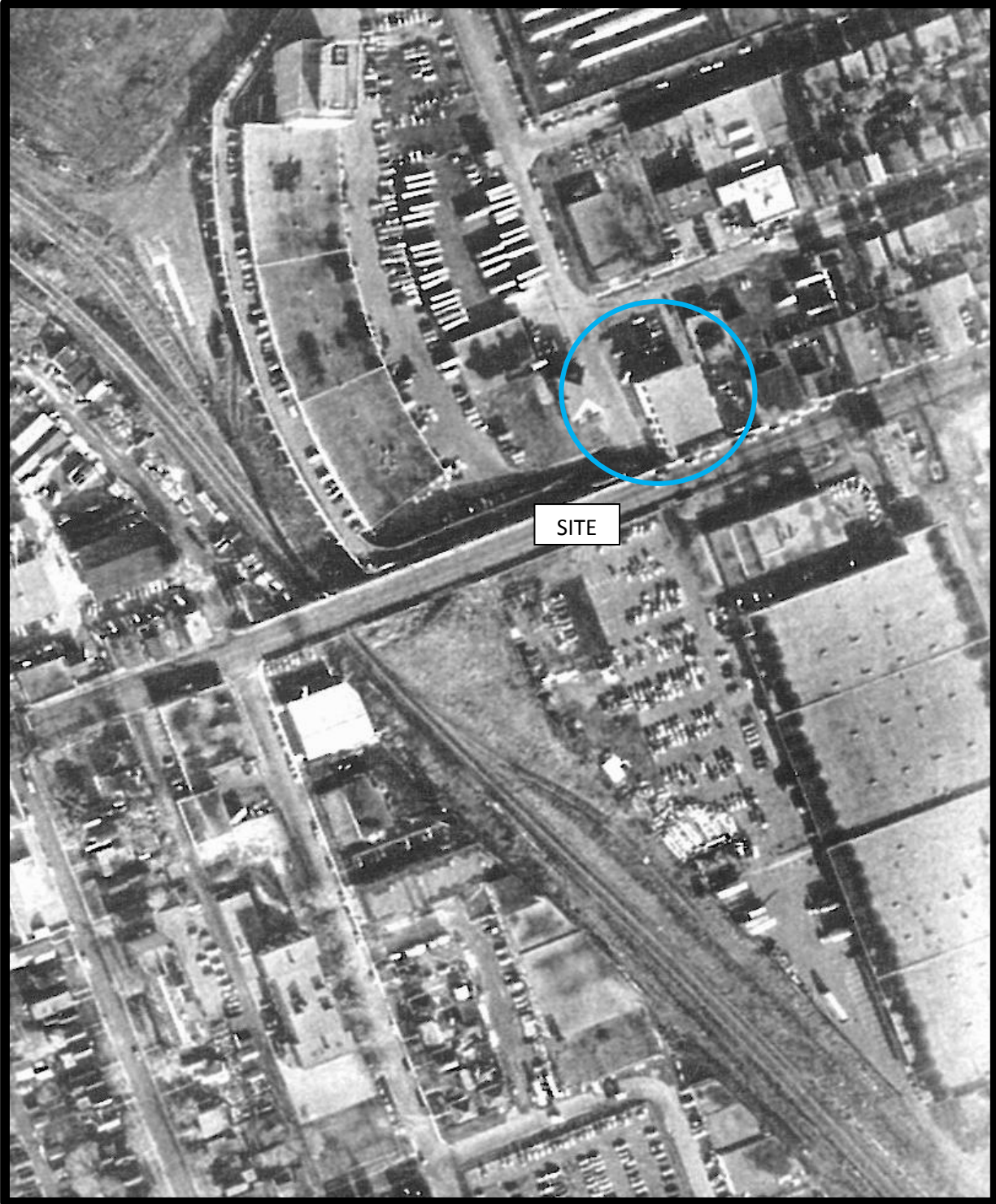
AERIAL PHOTOGRAPH
1928



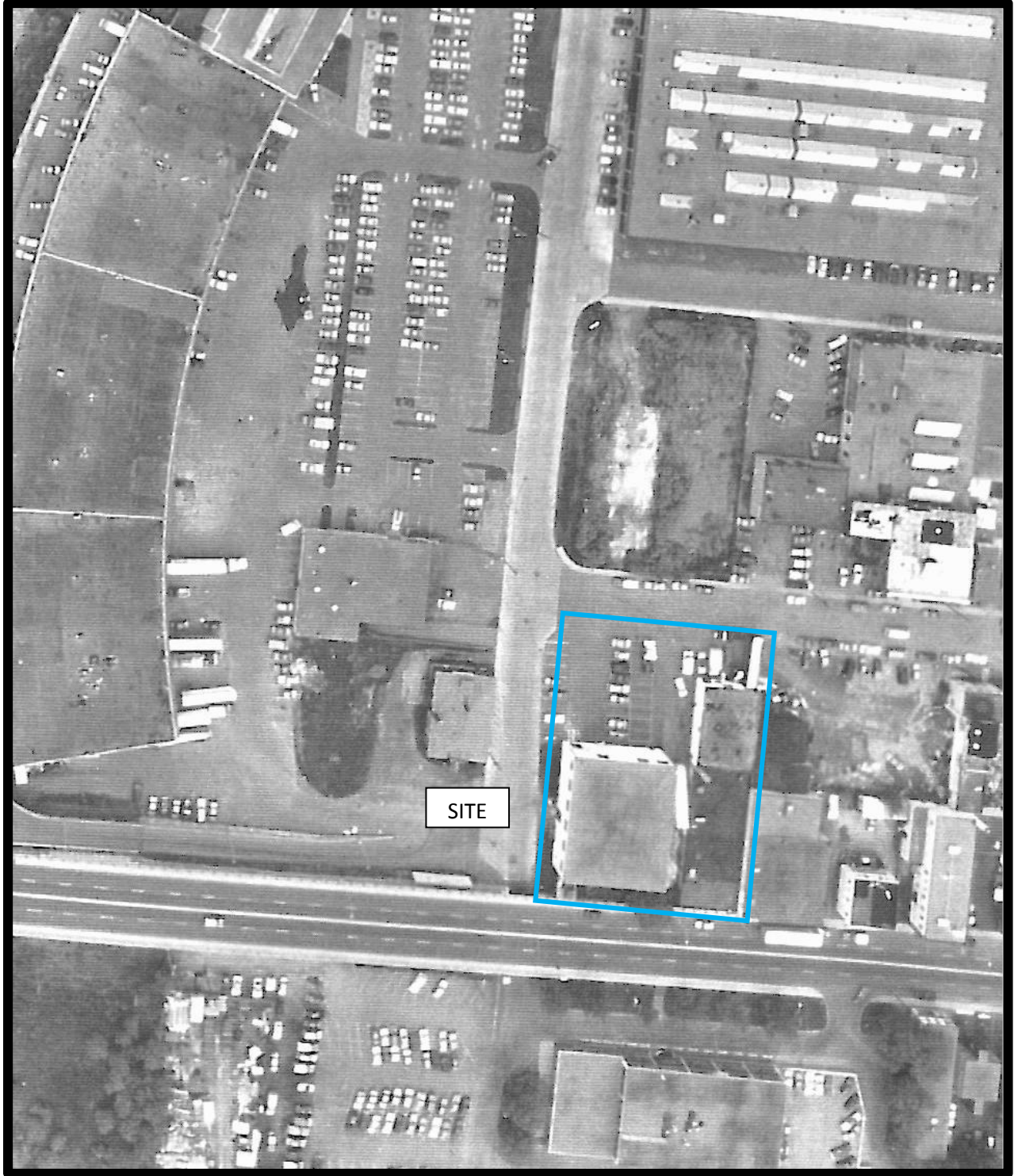
AERIAL PHOTOGRAPH
1958



AERIAL PHOTOGRAPH
1966



AERIAL PHOTOGRAPH
1976



AERIAL PHOTOGRAPH
1980



AERIAL PHOTOGRAPH
1995

Site Photographs

PE3185

989 Somerset Street West, Ottawa, Ontario

December 17, 2013



Photograph 1: Interior of second storey of subject building (A Fine Thing Antiques).



Photograph 2: Facing north from Somerset Street West along east boundary of subject building, showing Domicile construction materials storage.

Site Photographs

PE3185

989 Somerset Street West, Ottawa, Ontario

December 17, 2013



Photograph 3: Interior of first storey of subject building (Ultralux Paints).



Photograph 4: Subject building and parking lot, facing south from Spruce Street.

Site Photographs

PE3185

989 Somerset Street West, Ottawa, Ontario

December 17, 2013



Photograph 1: Interior of second storey of subject building (A Fine Thing Antiques).



Photograph 2: Facing north from Somerset Street West along east boundary of subject building, showing Domicile construction materials storage.

Site Photographs

PE3185

989 Somerset Street West, Ottawa, Ontario

December 17, 2013



Photograph 3: Interior of first storey of subject building (Ultralux Paints).



Photograph 4: Subject building and parking lot, facing south from Spruce Street.

Site Photographs

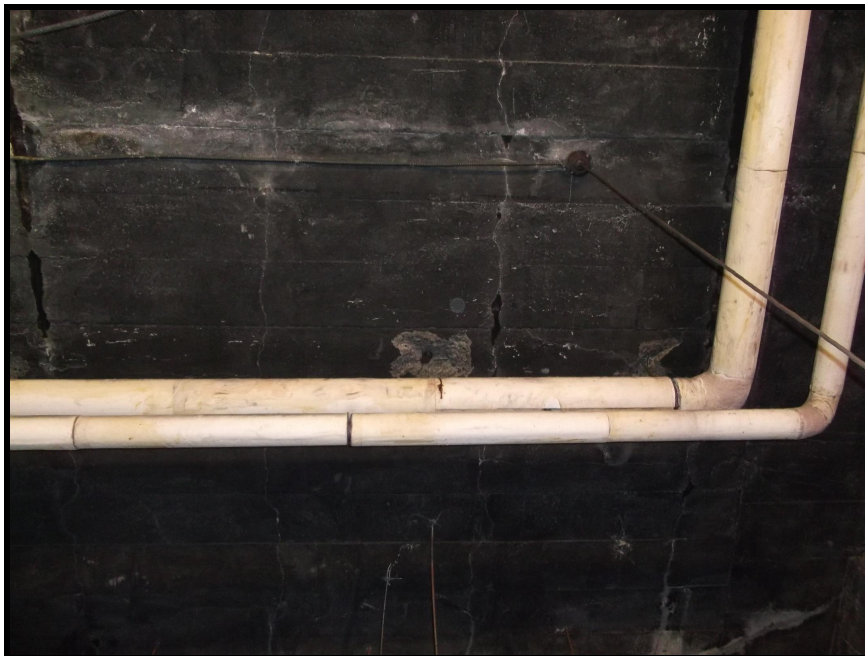
PE3185

989 Somerset Street West, Ottawa, Ontario

December 17, 2013



Photograph 5: Subject building, facing southwest from Spruce Street.



Photograph 6: Potential asbestos-containing pipe wrap in boiler room.

APPENDIX 2

MOE FREEDOM OF INFORMATION REQUEST AND RESPONSE

CITY OF OTTAWA HLUI SEARCH RESULTS

TSSA CORRESPONDENCE

MOE WATER WELL RECORDS

Freedom of Information Request

This form is for requesting documents which are in the Ministry's files on environmental concerns related to properties. Please refer to the guide on completion and use of this form. Our fax no. is (416) 314-4285.

Requester Data			For Ministry Use Only	
Name, Company Name, Mailing Address and Email Address of Requester Dan Arnott Paterson Group Inc. 154 Colonnade Road Ottawa, ON K2E 7J5 Email address: darnott@patersongroup.ca			FOI Request No.	Date Request Received
Telephone/Fax Nos. Tel. 613-226-7381 Fax 613-226-6344			Fee Paid <input type="checkbox"/> ACCT <input type="checkbox"/> CHQ <input type="checkbox"/> VISA/MC <input type="checkbox"/> CASH <input type="checkbox"/> CNR <input type="checkbox"/> ER <input type="checkbox"/> NOR <input type="checkbox"/> SWR <input type="checkbox"/> WCR <input type="checkbox"/> SAC <input type="checkbox"/> IEB <input type="checkbox"/> EAA <input type="checkbox"/> EMR <input type="checkbox"/> SWA	
Your Project/Reference No. PE3185		Signature/Print /Name of Requester Dan Arnott		
Request Parameters				
Municipal Address / Lot, Concession, Geographic Township (Municipal address essential for cities, towns or regions) 989 Somerset West, Ottawa, ON				
Present Property Owner(s) and Date(s) of Ownership Domicile Holdings (2000) Inc. (2002-present)				
Previous Property Owner(s) and Date(s) of Ownership				
Present/Previous Tenant(s), (if applicable) Ultralux Paints, A Fine Thing Antiques, Robert Tape Limited Precision Machine Shop, R.L. Crain Ltd.				
Search Parameters			Specify Year(s) Requested	
<i>Files older than 2 years may require \$60.00 retrieval cost. There is no guarantee that records responsive to your request will be located.</i>				
Environmental concerns (General correspondence, occurrence reports, abatement)			1986-present	
Orders			1986-present	
Spills			1986-present	
Investigations/prosecutions ➤ Owner AND tenant information must be provided			1986-present	
Waste Generator number/classes			1986-present	
Certificates of Approval ➤ Proponent information must be provided				
1985 and prior records are searched manually. Search fees in excess of \$300.00 could be incurred, depending on the types and years to be searched. Specify Certificates of Approval number(s) (if known). If supporting documents are also required, mark SD box and specify type e.g. maps, plans, reports, etc.				
			SD	Specify Year(s) Requested
air - emissions				1986-present
water - mains, treatment, ground level, standpipes & elevated storage, pumping stations (local & booster)				1986-present
sewage - sanitary, storm, treatment, stormwater, leachate & leachate treatment & sewage pump stations				1986-present
waste water - industrial discharges				1986-present
waste sites - disposal, landfill sites, transfer stations, processing sites, incinerator sites				1986-present
waste systems - PCB destruction, mobile waste processing units, haulers: sewage, non-hazardous & hazardous waste				1986-present
pesticides - licenses				1986-present

A \$5.00 non-refundable application fee, payable to the Minister of Finance, is mandatory. The cost of locating on-site and/or preparing any record is \$30.00/hour and 20 cents/page for photocopying and you will be contacted for approval for fees in excess of \$30.00.

**Ministry of
the Environment**

Freedom of Information and
Protection of Privacy Office

12th Floor
40 St. Clair Avenue West
Toronto ON M4V 1M2
Tel: (416) 314-4075
Fax: (416) 314-4285

**Ministère de
l'Environnement**

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

12^e étage
40, avenue St. Clair ouest
Toronto ON M4V 1M2
Tél. : (416) 314-4075
Télééc. : (416) 314-4285



February 18, 2014

Dan Arnott
Paterson Group Inc
154 Colonnade Rd S
Ottawa, ON K2E 7J5

Dear Dan Arnott:

**RE: Freedom of Information and Protection of Privacy Act Request
Our File #: A-2013-07058, Your Reference #: PE3185**

This letter is in response to your request made pursuant to the *Freedom of Information and Protection of Privacy Act* relating to 989 Somerset West, Ottawa.

After a thorough search of the Ministry's Ottawa District Office, Investigations and Enforcement Branch, Environmental Assessment and Approvals Branch, Environmental Monitoring and Reporting Branch, Sector Compliance Branch and Safe Drinking Water Branch, records were located in response to your request. It is my decision to provide full access to the attached information. For your information, records not related to the scope of your request have been removed and marked as N/R.

In accordance with Section 57 of the *Freedom of Information and Protection of Privacy Act*, detailed below are our charges:

• Search Time 1 hour @ \$30/hour	\$30.00
• Copying 81 pages @ \$0.20/page	\$16.20
• Delivery	3.00
• Total	\$ 49.20
• Deposit Received	- 30.00
• BALANCE WAIVED (NOT REQUIRED)	\$ 19.20

The District Office has advised that there may be inactive records in the Records Centre, Mississauga. To retrieve these files there is a charge of \$60.00 with no guarantee that any records will be located responsive to your request. If you would like us to retrieve these files, **please forward to me at the above address payment by money order or cheque (made payable to the "Minister of Finance (FOI)") or by credit card in the amount of \$60.00.** Credit card forms are available on the Ministry's website (<http://www.ene.gov.on.ca>) under the heading "About the Ministry". Please note, a request for records must usually be answered within 30 calendar days, however Section 27 allows for time extensions under certain circumstances. If you choose to have the files retrieved from the Records Centre, the time for answering your request will be extended for an additional 30 days.

You may request a review of my decision by contacting the Information and Privacy Commissioner/Ontario, 2 Bloor Street East, Suite 1400, Toronto, ON M4W 1A8 (800-387-0073 or 416-326-3333). Please note that there is a \$25.00 fee and you only have 30 days from receipt of this letter to request a review.

If you have any questions regarding this matter, please contact Fred Rüter at (416) 314-1225.

Yours truly,



Heidi Ritscher
FOI Manager

Attachments



HOME | **HWIN** | SYSTEM | **HWIN** | ABOUT US | NEWS & PUBLICATIONS

User Management | Company Mgmt | Manifests | Site Data | HELP | Logout

hwinn Administration

Generator Details

Search

Registration/Notification Number

ON0194400

Legal Company Name

Primary Name: ROBT. TAPE LTD.

Division Name: NA

Company Operating Name

Primary Name: ROBT. TAPE LTD.

Division Name: NA

Mailing Address

Division Building: NA

Address Line 1: 989 Somerset St. West

Town/City: Ottawa

Country: (if inside Ontario) OTTAWA CARLTON (RM)

Country: (if outside Ontario) NA

Country: Canada

Post Box Number: NA

Address Line 2: NA

Postal Code / Zip Code: K1R 6R8

Province/State (if inside Canada/US) ONTARIO

Province/State (if outside Canada / US) NA

Site Location

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

Division Building: NA

Address Line 1: 989 Somerset St. West

Address Line 2: NA

Town/City: Ottawa

Country: (if inside Ontario) OTTAWA CARLTON (RM)

Country: (if outside Ontario) NA

Country: Canada

Post Box Number: NA

Postal Code / Zip Code: K1R 6R8

Province / State (if inside Canada / US) ONTARIO

Province / State (if outside Canada / US) NA



HOME | AIR | WATER | **SOIL** | ABOUT US | NEWS & PUBLICATIONS

User Management * | Company Mgmt | **Materials** | Site Data | HELP | Logout

hwin Administration

Company Name: ROBT. TAPE LTD.
 Company Number: ON0194400 (Generator)

Active Waste Classes

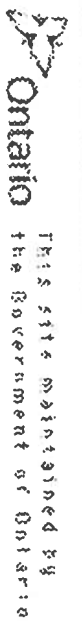
Active Waste Class Listing

[Add New Waste Class](#) [Inactive waste classes](#)

Active On-site Waste Classes	Physical State	On-Site	Status	View Details
253 - L	Liquid	On-site Disposal	Active	View Details

Active On-site Waste Classes	Hazardous Waste Number (per waste stream)	Reg. 347 Schedules	Disposal Method Part 2B required	Part 2B complete	Physical State	Off-Site	Status
253 - L					Liquid	Off-Site	Active

[View Details N/A](#)



Technical inquiries to [Webmaster](#).
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Generator Registration Information

Generator: (ON0194400) ROBT TAPE LIMITED Status: ACTIVE Change

Site Address Line 1: 989 SOMERSET STREET WEST Expiry Date:
 Site Address Line 2: SIC Code: (3081)MACHINE SHOP IND. Created Date: Sep 30 1988
 Site City : OTTAWA
 Site Province : ON Postal Code: K1R 6R8
 Mail Address Line 1:
 Mail Address Line 2:
 Mail City :
 Mail Province : Postal Code:
 Contact and Phone : MR. TONY BOWER-BINNS (613) 2324271
 Region: 04 District: 402 Municipal Code: 04460102 County:46
 Number of Manifests: 0 in 1994, 0 in 1995, 1 in 1996
 Number of Manifest Exceptions: 0 in 1996

Waste Registrations

Major:253 Minor:LP Description:EMULSIFIED OILS State:L Specific:0.9 Date:

Criteria Used ("- " indicates non use)

Sort Seq.:Number ("number or - " indicates company number sequence)
 Sitenumber:on0194400 (" " indicates not entered number)
 AND Region = -
 AND District = -
 AND County = -
 AND Status = -
 AND Site Name =
 AND Site Address 1 =
 AND Site Address 2 =
 AND City =
 AND Mailing Address 1 =
 AND Mailing Address 2 =
 AND Mailing City =
 AND Generator SIC Code =
 AND Major Waste Code = -
 AND - like
 AND - like
 AND - like

Maximun Waste Registration Lines = 4000

Your Criteria Resulted in 1 registration records found.

If the count is 9999 or 10000 you may have hit the max limit allowed. Your optional

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Generator Activity for 4 Manifests in Manifest. [Manifest Number]

Generator: (ON0194400) ROBT TAPE LIMITED
Status: ACTIVE

Site Address Line 1: 989 SOMERSET STREET WEST **Expiry Date:**
 Site Address Line 2: **SIC Code: (3081) MACHINE SHOP IND. Created Date: 1988-09-30 0**
 Site City : OTTAWA
 Site Province : ON Postal Code: K1R 6R8
 Mail Address Line 1:
 Mail Address Line 2:
 Mail City :
 Mail Province : **Postal Code:**
 Contact and Phone : MR. TONY BOWER-BINNS (613) - 2324271
 Region: 04 District: 402 **Municipal Code: 04460102**

Manifests

Man/Cpy/St/Ln Maj Min	Ch Description	Shipd	Quan	Unit	Recvd
KK71352 R U 1 253	L EMULSIFIED OILS	1998-04-23	1230.0	L	1998-04-23
Carrier:A008231 SAFETY-KLEEN SYSTEMS, INC. AND SAFETY- Receiver:A710119 SAFETY-KLE					
PP54090 R U 1 253	L EMULSIFIED OILS	1999-09-09	1637.0	L	1999-09-09
Carrier:A008231 SAFETY-KLEEN SYSTEMS, INC. AND SAFETY- Receiver:A710119 SAFETY-KLE					
QQ44891 R U 1 253	L EMULSIFIED OILS	2000-08-04	900.0	L	2000-08-04
Carrier:A008231 SAFETY-KLEEN SYSTEMS, INC. AND SAFETY- Receiver:A710119 SAFETY-KLE					
TT17696 R U 1 253	L EMULSIFIED OILS	2001-07-05	1225.0	L	2001-07-05
Carrier:A008231 SAFETY-KLEEN SYSTEMS, INC. AND SAFETY- Receiver:A710119 SAFETY-KLE					

Avi-1248 L/YR

Criteria Used ("-" indicates non use)

Sort Seq.:Manifest. [Manifest Number], [Manifest waste]. [Waste Line Number] ("nu
 Generator No. :on0194400 (" " indicates not entered number)
 Shipping Date From = 1997/01/01
 Shipping Date To = 2999/01/01
 Forced Match Status = -
 Status = -
 Forced Match Status = -

Major Waste Code = -
Waste Characteristic = -
Maximum Records = 1000

Your Criteria Resulted in 4 waste lines records found.

If the count is 9999 or 10000 you may have hit the max limit allowed. Your optional

--- End of Search Results ---

s.N/R

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Generator Registration Information

Generator: Status: Registered Changed Date: Jul 8 1999

Site Address Line 1: 989 SOMERSET STREET WEST Expiry Date:
Site Address Line 2: SIC Code: (3081)MACHINE SHOP IND. Created Date: Sep 30 1988
Site City : OTTAWA
Site Province : ONT Postal Code: K1R 6R8
Mail Address Line 1:
Mail Address Line 2:
Mail City :
Mail Province : Postal Code:
Contact and Phone : MR. TONY BOWER-BINNS (613) 2324271
Region: 04 District: 402 Municipal Code: 04460102 County:46
Number of Manifests: 0 in 1994, 0 in 1995, 1 in 1996
Number of Manifest Exceptions: 0 in 1996

Waste Registrations

Major:253 Minor:LP Description:EMULSIFIED OILS State:L Specific:0.9 Date:

Criteria Used ("- " indicates non use)

Sort Seq.:Number ("number or - " indicates company number sequence)
Sitenumber:on0194400 (" " indicates not entered number)
AND Region = -
AND District = -
AND County = -
AND Status = -
AND Site Name =
AND Site Address 1 =
AND Site Address 2 =
AND City =
AND Mailing Address 1 =

Received By
BRIAN PARK

ORIS No.
9900006722

I.E.B. No.

Occurrence Type: COMPLAINT
Subtype: WASTE

Work Plan
[WH]

Occurrence: Date Time

Reported by (Name/Organization)
ANONYMOUS CALLER

Report to MOE:1999/07/13 11:10
MOE at Scene:

Telephone No. 000-000-0000 X
Address:

Alternate No. X

Assigned To:

Postal Code:

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

Location of Occurrence:
OTTAWA CITY
AT ROBERT TAPE LTD. AT 989 SUMMERSET ST.

Source:
CONTRACTOR
(N.O.S.)

EASTERN OTTAWA DISTRICT
Reg.[4] Dist.[OT] Municipality[20101]

Sector: [SI] Source: [OT] SIC: [4000]
UTM:
N: [5026000] E: [447000] Zone: [18]

Syn:ROBERT TAPE LTD.-REPORT OF IMPROPER DISPOSAL OF PHENOLIC RESIN WASTE.

Brief Summary:

AN ANONYMOUS CALLER REPORTED THAT THE ROBERT TAPE LTD. COMPANY AT 989 SUMMERSET ST. IN OTTAWA IS DISPOSING OF PHENOLIC RESIN WASTE IN THEIR REGULAR GARBAGE PICK-UP. THE PHENOLIC RESIN IS PLACED IN GREEN GARBAGE BAGS AND PICKED UP BY THE REGULAR GARBAGEMEN ON FRIDAYS. CALLER SAID THAT THIS PRACTICE HAS BEEN GOING ON FOR THE PAST 10 YEARS.

SI OC OT SO 700

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

Follow-up Action: [] Abatement [] IEB [] Other _____ |BF Date:

File Closed: [] Abatement [] IEB [] OTHER | Complainant Contact Code [| |] Date | Suspected [] Violation

Report Prepared by: Date | IEB Investigator IEB BF Date

Approving Officer Date | Reviewing Officer Date

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

SAC Action Class: 1:[] 2:[]

REPORT ON THE STORAGE OF SUBJECT WASTE
TO BE SUBMITTED TO THE DIRECTOR OF THE SOUTHEASTERN REGION

Name: ROBT. TAPE LTD
 Address: 989 SOMERSET ST W
 Municipality: OTTAWA
 Postal Code: K1R 6R8
 Contact Person: TONY BOWER-BINNS
 Telephone Number: 232-4271

Waste Name: Spart Oil from Lathes & Milling Machines
 Primary Characteristic: _____
 Waste Class Number: 253L
 DGA Waste Number: ? GR Number: ON0194400
 Quantity : Stored: 60 gallons

Description of storage procedure and area:
stored in 40 gallon drums

Reasons for retention of the waste:
Unable to find company to dispose of it

Anticipated time and manner of disposal of the waste:
unknown

June 19/96 T. Bower-Binns

Occurrence Report

O.C.S. 01-KC B.09

- Initial Report - Complete all applicable sections
- Supplemental Report - Complete all shaded and other appropriate sections.

Received by <i>E. M. ...</i>		Page 1 of
Reg. No. <i>91492.00099</i>	S.A.C. No.	I.E.B. No.

2 Type of Occurrence <input checked="" type="checkbox"/> Occurrence Code VIOLATION Sub. Cat. Code		Occurrence Date YY MM DD <i>910118</i>	Time (24 Hr Clock)
Reported by (Name/Organization) EMMANUEL MBENDUN (MOE)		Date Reported YY MM DD <i>910118</i>	Time (24 Hr Clock)
Tel. No. 521 3450	Alternate Tel. No.	Date MOE at Scene YY MM DD <i>910116</i>	Time (24 Hr Clock) 14:00
Address		MOE Officer Assigned R. DOYLE	
Postal Code			

3 Location of Occurrence ROBT TAPE Limited 939 SOMERSET ST W OTTAWA		4 Source 90 DAYS STORAGE FACILITIES	
MOE Region Code 4	MOE Dist. Code 02	Municipal Code 20101	Source Code 07
		Sector Code SI	SIC Code

5 Brief Summary (Attachments accompanying this report: No If Yes, number and list them in this Section)

*... LIL. FROM BATHES. AND MILLING MACHINES (2534)
... STORED FOR MORE THAN 90 DAYS WITHOUT STORAGE
... REPORT IN VIOLATION OF SECTION (15)(16) Reg. 309.
... Request for storage report given during meeting
... credit and form provided
... - Mtg with Derek Wellsher - he did not know where*

Multiple reports on single incident: No If Yes, list related Occurrence Report numbers here.>>

Continued in Section 12 No Yes

6 Follow-up Action: Abatement I.E.B.

No Further Action by: Abatement IEB File Closed

Suspected Violation Code: I.E.B. Investigator Assigned

7 Report Prepared by <i>R. Doyle</i>	Date YY MM DD <i>910118</i>	B.F. Date YY MM DD	Person-Days	MBR	Function
District Officer <i>E.P. ...</i>	Date YY MM DD <i>910121</i>	IEB Reviewing Officer		Date YY MM DD	

Specify Number(s), indicating the routing of the original 1

Specify Number(s), indicating the distribution of the copies 2

Continued on REVERSE side of form No Yes

1 Investigator or Environmental Officer 2 District Officer/File 3 S.A.C. (all spills) 4 Reg. Dir/ 5 I.E.B. Reg. Supervisor 6 I.E.B. Head Office File

000021

Occurrence Report

Complete appropriate boxes in this section if this page is used

Reg. No.	S.A.C. No.	I.E.B. No.	Page 2 of
----------	------------	------------	-----------

8 Material 1		Code	<input type="text"/>
Amount 1 (Quantity/Concentration/Duration)		U N No.	<input type="text"/>
Material 2		Code	<input type="text"/>
Amount 2 (Quantity/Concentration/Duration)		U N No.	<input type="text"/>
Cause		Code	<input type="text"/>
Reason		Code	<input type="text"/>
Controller of Material (Name/Organization)			
Owner of Material (Name/Organization)			
Agencies Involved			

9 Clean Up and Restoration Carried Out By		% Cleaned Up
<input type="checkbox"/> Controller <input type="checkbox"/> Owner <input type="checkbox"/> Other, specify		Est. Cost \$
Were Directions or Approvals Given Under EPA Pt IX <input type="checkbox"/> No <input type="checkbox"/> Yes Reg. 11/82 <input type="checkbox"/> No <input type="checkbox"/> Yes		Waste Class No
If Yes, number and list documents attached to this Report in Section 12 or on Continuation Page.		Emergency Generator No.
Hauler		System No.
Disposal Site		Site No.
Hauler		System No.
Disposal Site		Site No.

10 Residual Environmental Impact	Nature of Impact
<input type="checkbox"/> Confirmed <input type="checkbox"/> Possible <input type="checkbox"/> Not Anticipated	Code <input type="text"/>

11 People/Business Damaged (Other than Owner/Controller)
<input type="checkbox"/> No If <input type="checkbox"/> Yes, who?
Nature of Damage
Code <input type="text"/>

12 Additional Information (If continuation of Brief Summary, indicate in box in Section 5.)

file was kept but was cooperative in discussing situation - advised that barrels shou of stored oil should have a cover. - barrels were in a corner of the work area in the building. - Owner - Tony Bowers - Binns telephoned on following day. Storage Report supposedly sent 19 Jun 90. A copy sent by Fax 18 Jan 91. No further action proposed.

Continued on
CONTINUATION
PAGE
 No Yes
000022

CHECK LIST FOR PROVINCIAL OFFICERS ACKNOWLEDGING RSC'S

Site Address: 1461-15th Street / 9th Floor
 Site Owner: 4155 St. Catherine Street
 Consultant: TRIER CONSULTANTS

This check list is a tool to assist Provincial Officers in conducting the administrative verification of a Record of Site Condition (RSC) as outlined in section 4.1 of the Proponent Directed Restoration Document (the Document). Use of the check list will ensure that acknowledgement is provided in a manner which will be reproducible, consistent and uniform across the province. The objective of the administrative verification is to prevent incomplete or modified RSC's, or RSC's that contain contradictory information that would affect the ability of the ministry to issue an order, being returned to proponents with acknowledgement.

Acknowledgement of receipt of a RSC is not a review or approval of the work conducted at the site, and it is not a review to confirm that the Guideline process was applied properly at the site or to verify that the information submitted on the RSC accurately represents the site conditions. Any inconsistencies noted on the RSC should be brought to the attention of the Central Audit Team (CAT) when discussions occur regarding triggering of an audit. The acknowledgement of the RSC is primarily an administrative function, it is the audit that will provide the integrity to the process.

(A) "THE KING TO ENSURE" INFORMATION IS PROVIDED

If the answer to any of the following questions is NO, then the RSC cannot be considered to be complete or it has been modified. (Complete section B and if the program priorities for compliance driven restoration do not exist, return the RSC without acknowledgement using Standard Covering Letter #2 or #3 as appropriate from the Document.)

RSC Part 1	
Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>

RSC Part 2
 X
 X

At least one report has been prepared by the principal consultant who swore the Affidavit of Principal (consultant in Part 5)?

RSC Part 3
 X
 X

A plan view of the site is attached showing property lines, site boundaries, the locations of all soil and groundwater sampling locations and all level 2 risk management measures implemented?

RSC Part 5
 X
 X

Affidavit of Principal (consultant is unaltered)?
 Affidavit of Principal (consultant is signed by the principal consultant named in the first line of Part 5? (Note: only an individual can sign the Affidavit, a corporation cannot.)

X
 X
 X

Affidavit of Principal (consultant was sworn before a commissioner of oaths)?
 Wording that is struck out has been initialed by the "principal consultant"?

RSC Part 6
 X
 X
 X

Statement of Site Owner is unaltered?
 Consultant who signed the Affidavit of Principal (consultant is named in the Statement of Site Owner as the "principal consultant")?
 Statement of Site Owner is signed? (Note: If the owner is a corporation, then the person signing Part 6 must have signing authority.)
 Written consent from the owner, authorizing the person to sign on the owner's behalf, is attached. (Only required if the owner is an individual and someone on behalf of the owner is signing Part 6.)

Principal: 1020-15th St (2222)
 Consultant: TRIER CONSULTANTS
 Date: 2011-02-21
 Signature: [Signature]
 Title: Principal

PLS - 07/07 Summary on 01/04/00

(B) CHECKING TO ENSURE RSC IS NOT CONTRADICTORY

If the answer to any of the following questions is NO, then the RSC does not contain enough information to assess the need to issue an order, or contains contradictory information that prevents the issuance of an order. Complete section D and if the program priorities for compliance driven restoration do not exist, return the RSC without acknowledgement of the RSC using Standard Covering letter #3 from the Document.

RSC Part 3

Yes No

- X ~~X~~ Where only a Phase I ESA has been completed with no systematic testing of soil or groundwater, no potential sources of contamination were identified on the site?
- X The material at the site is identified as coarse to medium fine textured soil? (Note: only one soil texture may be selected)
- X The assessment and/or restoration approaches used are identified? (Note: more than one approach may be used at a site.) 6/5/0
- X Land use is identified? (Note: more than one type of land use may be indicated at a site) 12/5
- X Groundwater condition is identified (potable/non-potable)?

RSC Part 3 - Tables 2 and 3

(Note: Where a Phase I ESA indicated no concerns with contamination at a site, samples may not have been collected and analysed. In these cases, Tables 2 and 3 of the RSC may be blank)

Yes No

- X ~~X~~ **Table 2 - Surface Soils** X NA (check box if a SSRA was conducted)
- X The Guideline Limits for Surface Soils correspond to the assessment and/or restoration approach, soil texture, land use, and groundwater condition identified in Part 3 and the limits are transcribed correctly?
- X The Maximum Concentrations listed do not exceed the Guideline Limits identified above?

Yes No

- X ~~X~~ **Table 2 - Subsurface Soils** X NA (check box if fill depth or background or SSRA approach was used)
- X The Guideline Limits for Subsurface Soils correspond to the assessment and/or restoration approach, soil texture, land use, and groundwater condition identified in Part 3 and the limits are transcribed correctly?
- X The Maximum Concentrations listed do not exceed the Guideline Limits identified above?
- X Where a stratified approach has been identified in Part 3, the information in Table 2 shows that a stratified condition does exist (eg. the concentration of at least one parameter listed for subsurface soil exceeds the surface soil criterion)

Table 2 - Groundwater

X NA (check box if no groundwater samples were collected or SSRA approach was used)

- X The Guideline Limits for Groundwater correspond to the groundwater condition identified in Part 3, and are transcribed correctly?
- X The Maximum Concentrations listed do not exceed the Guideline Limits identified above?

Table 3 - SSRA

X NA (check box if SSRA approach was not used)

- X The Maximum Concentrations listed do not exceed the Acceptable Concentration Developed Using the SSRA Approach
- RSC Part 4 X NA (check box if a SSRA was not conducted)
- X Where a SSRA has been identified in Part 3, all risk management measures summarized in Standard Development Branch's review are stated as being implemented in Part 4?

(C) NOTHING INCONSISTENT

There are some situations where the RSC can be returned with acknowledgement even though there may be some possible inconsistencies indicated on the RSC. The effect of these inconsistencies on the RSC does not affect the ability of the ministry to issue an order. As noted in Section 4.4 of the Document, if any of the information indicated in the following questions is inconsistent with other parts of the RSC or the guideline process then these inconsistencies should be noted using Standard C covering Letter #4, #5 or #6. After completing Steps 2 and 3 of the Document, this covering letter with the acknowledged RSC should be sent to the proponent and copied to the indicated interested parties.

Check off if the following are consistent or inconsistent with other information in the RSC:

RSC Part 3	Consistent	Inconsistent
Is this a potentially sensitive site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(An example of an inconsistency is where a site is identified as potentially sensitive, but criteria other than background are used.)		
Has there been any restoration of the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(An example of an inconsistency is where in Part 3 it is indicated that restoration occurred, but in Part 5 the phrase "and restoration activities" is struck out)		
Was the SSRA approach used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(An example of an inconsistency is where in Part 3 it is indicated that the Restoration Approach(es) did not include SSRA, but in Part 5 item number 10 is not struck out)		
Was the municipality notified? (An example of an inconsistency is where municipal groundwater criteria were used but the municipality was not notified.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Specific comments:

Check off whether or not the following items were indicated on the RSC?

RSC Part 4	Yes	No	NA
Was public communication undertaken as part of the SSRA approach?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Are there any ongoing monitoring or care requirements with respect to the level 2 risk management measures?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

(D) CHECKING TO INSURE THERE IS NOT A COMPLIANCE DRIVEN RESTORATION

The following questions are taken from the Delivery Strategy. If the answer to any of the following is YES, then this is a compliance driven restoration. Retain the RSC and take appropriate abatement action (refer to Compliance Guideline). Do not use any of the Standard C covering Letters from this Document. Instead, letters should be drafted appropriate to the specific situation.

Is there evidence on the RSC to indicate that a compliance driven situation is known or reasonably expected based on any of the following program priorities?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
on or off-site human health effects?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
off-site damage to property, plants or animals?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
explosion or fire hazard?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
fire phase product?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
contaminated soil or ground water migrating off-site in excess of Table A?	<input checked="" type="checkbox"/>

Also is there evidence, of which you are aware, outside of the RSC, to indicate that a compliance driven situation is known or reasonably expected based on any of the following program priorities?

Yes	No
<input checked="" type="checkbox"/>	<input type="checkbox"/>
on an off-site human health effects?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
off-site damage to property, plants or animals?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
explosion or fire hazard?	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>
fire phase product?	<input checked="" type="checkbox"/>

- contaminated soil or ground water migrating off-site in excess of Table A's
- repetitive or multiple occurrence with potential for environmental impairment?
- failure to obtain approval or to fulfill reporting requirement in relation to above program priorities?
- activity identified in current work plan cycle?

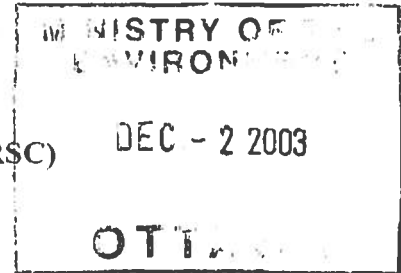
Specific comments:

see 2014 J.C. R122WA

If this check list has been completed, a compliance driven situation was not identified in Section D, and the answers to all of the questions in Sections A and B were yes, then proceed to STIP 2 in the document.

Schedule A - Record of Site Condition (Revised September, 1998)
for the Guideline for Use at Contaminated Sites in Ontario, Revised February 1997

RECORD OF SITE CONDITION (RSC)
FOR



160 Spruce Street and 989 Somerset Street West
OTTAWA, ONTARIO

A Summary of Environmental Site Conditions
In Accordance with
Schedule A of the "Guideline For Use at Contaminated Sites in Ontario",
Revised February 1997

September, 1998

Ontario Ministry of the Environment

Schedule A - Record of Site Condition (Revised September, 1998)
for the Guideline for Use at Contaminated Sites in Ontario, Revised February 1997

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Send To: Ottawa
Name of MOE District Office

2435 Holly Lane, Ottawa, Ontario
Address of MOE District Office

The RSC becomes a public document after it has been acknowledged by the Ministry of the Environment (MOE). Section 167 of the *Environmental Protection Act (R. S. O. 1990)* states: "No person shall hinder or obstruct a provincial officer in the lawful performance of his or her duties or furnish a provincial officer with false information or refuse to furnish the provincial officer with information required for the purposes of this Act and the regulations."

Part 1 - SITE' OWNERSHIP

From: 415588 Ontario Limited
Name of site owner ^{2,3}

19500 Trans Canada HWY, Baie d'Urfe, Quebec, H9X 3S8
Address for correspondence

Telephone: (514) 457-1512 Facsimile: (514) 457-0883
Telephone and Fax numbers

Site: 160 Spruce Street, Ottawa, Ontario, K1R 6P2 and
989 Somerset Street West, Ottawa, Ontario, K1V 8Y5
Municipal address of the site

Lot 5 and Part of Lot 4 on the North Side of Somerset Street and Lot 5 and Part of Lot 4, on the South Side of Spruce Street, Plan 73, in the City of Ottawa, in the Regional Municipality of Ottawa-Carleton.
Legal description of site'

Additional site identifiers including plot plan number, assessment role number, etc.

Does this Record of Site Condition (RSC) apply to the entire property? Yes No

¹ "Site" means the portion of the property to which this RSC applies. Where the site does not include the entire property a certified document containing a registrable description of the applicable portion of the property must accompany this document. Where the site includes the entire property a certified copy of the most recent deed/transfer for the property must be submitted.

² A Certificate of Status obtained from the Ministry of Consumer and Commercial Relations must accompany this RSC if the site owner is a corporation.

³ If you are submitting as the agent or as the lessee acting as an agent of the site owner, provide the owner's name here and indicate you are the agent in Part 6.

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Part 2 - SITE ENVIRONMENTAL REPORTS

Provide a complete listing of all the environmental reports that have been prepared and/or used by the principal consultant retained by the site owner/agent on behalf of the owner and used to make the statements contained in the Record of Site Condition (RSC).

Table 1: List of Environmental Reports

REPORT TITLE	DATE	AUTHOR	AFFILIATION
Limited Phase II - Environmental Site Assessment, 160 Spruce Street, Ottawa, Ontario	January 27, 2003	Mark S. D'Arcy	John D. Paterson and Associates Limited

Are additional pages of Table 1 attached to this RSC?
 (Do not include reports.)

Yes No
 (If Yes, how many pages? ___)

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Part 3 - SUMMARY OF ENVIRONMENTAL SITE CONDITIONS

3.1 Explanatory Notes for Completing Part 3 of the RSC

Part 3 of the RSC describes the final environmental conditions of the site after the process outlined in the Guideline has been followed. The statements signed in Part 5 by the consultant are to confirm that the site meets the conditions indicated in Part 3.2.

- A plan showing property lines, site boundaries, the locations of all soil and groundwater sampling locations, and all Level 2 risk management measures implemented must be attached to this RSC.
- Only the maximum concentration remaining at the sample locations should be reported in Column II, of either Table 2 or Table 3, for each chemical. Do not include the results from all sampling locations.
- The appropriate Guideline criteria for either the background or the type of generic approach used, as indicated in Part 3.2 of this RSC should be listed in Column III, Table 2 for the applicable chemical. If a parameter is analysed but not detected, then indicate this with "ND". The subsurface soil section in Table 2 should only be completed if the Stratified approach is indicated.
- If SSRA criteria are developed for any chemicals at the site, these values should be reported in Column III, Table 3.
- Soil concentrations should be reported on a dry weight basis $\mu\text{g/g}$ (micrograms/gram) and groundwater concentrations should be reported $\mu\text{g/L}$ (micrograms/litre).
- Photocopies of Tables 1, 2, or 3 may be made if additional space is required for data entry.
- A completed RSC may be submitted after a Phase I Environmental Site Assessment (ESA) has been completed and it is determined that there are no potential sources of contamination, and therefore no systematic testing of soil groundwater is required. When noted in the appropriate box in Part 3.2 of the RSC, this will indicate that the RSC is based only on a completed Phase I ESA and no soil or groundwater testing was conducted.

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3.2 Site Assessment and Restoration Approach

- Is this a potentially sensitive site as defined in the Guideline? Yes No
- Has a Phase I ESA been completed (Step 1 in the Guideline)? Yes No
- Did the Phase I ESA identify any potential sources of contamination on the site? Yes No
- Has a Phase II ESA been completed (Step 2 in the Guideline)? Yes No
- Has there been any chemical testing of the soil at the site? Yes No
- Has there been any chemical testing of the groundwater at the site? Yes No

The site is classified as having:

- coarse textured soil medium/fine textured soil (Indicate one only)

Assessment and/or Restoration Approach(es) used: (not applicable)

- Background Generic Full Depth Site Specific Risk Assessment -Level 1
 Generic Stratified Site Specific Risk Assessment - Level 2

- Were any site specific criteria developed for this site using the SSRA approach? Yes No
- Has there been any restoration of the site (Step 3 in the Guideline)? Yes No
- Are any risk management measures required at this site? Yes No
(If Yes, Complete Part4)

In accordance with the Guideline, upon completion of the assessment and restoration (if necessary), the site meets the following conditions:

Land Use:

- Agricultural
- Residential/Parkland
- Industrial/Commercial

Groundwater Condition:

- Potable
- Non-potable
- If non-potable criteria are used, was the Municipality notified? Yes No

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Table 2: Summary of Site Conditions - Background and Generic (Full Depth and Stratified) Approaches

Column I	Column II	Column III	Column IV
Chemical Name	Maximum Concentration Remaining at Sampling Locations ($\mu\text{g/g}$)	Appropriate Background or Generic Criteria ($\mu\text{g/g}$)	Sampling Location and Depth (m) (Location as shown on attached plan)
Surface Soil (For full depth in Background and Generic Full Depth approaches, but only for depths less than 1.5 m in a Generic Stratified approach.)			
Antimony	ND	13	BH12 SS1 @ 0.5 m
Arsenic	2	20	BH12 SS1 @ 0.5 m
Barium	100	750	BH12 SS1 @ 0.5 m
Beryllium	ND	1.2	BH12 SS1 @ 0.5 m
Cadmium	ND	12	BH12 SS1 @ 0.5 m
Calcium	27,000	No Value	BH12 SS1 @ 0.5 m
Chromium	20	750	BH12 SS1 @ 0.5 m
Cobalt	10	40	BH12 SS1 @ 0.5 m
Copper	25	225	BH12 SS1 @ 0.5 m
Iron	18,000	No Value	BH12 SS1 @ 0.5 m
Lead	70	200	BH12 SS1 @ 0.5 m
Magnesium	10,000	No Value	BH12 SS1 @ 0.5 m
Molybdenum	ND	40	BH12 SS1 @ 0.5 m
Nickel	15	150	BH12 SS1 @ 0.5 m
Selenium	ND	10	BH12 SS1 @ 0.5 m
Silver	ND	20	BH12 SS1 @ 0.5 m
Sodium	200	No Value	BH12 SS1 @ 0.5 m
Thallium	ND	4.1	BH12 SS1 @ 0.5 m
Tin	ND	No Value	BH12 SS1 @ 0.5 m
Vanadium	30	200	BH12 SS1 @ 0.5 m
Zinc	60	600	BH12 SS1 @ 0.5 m

Are additional pages of Table 2 (Surface Soil) attached to this RSC?
 (Do not include reports)

Yes No
 (If Yes how many pages? _)

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Table 2 (continued): Summary of Site Conditions - Background and Generic (Full Depth and Stratified) Approaches

Column I	Column II	Column III	Column IV
Chemical Name	Maximum Concentration Remaining at Sampling Locations ($\mu\text{g}/\text{g}$)	Appropriate Background or Generic Criteria ($\mu\text{g}/\text{g}$)	Sampling Location and Depth (m) (Location as shown on attached plan)
Subsurface Soil (For depth greater than 1.5 m in a Generic Stratified approach.)			
Not applicable.			

Are additional pages of Table 2 (Subsurface Soil) attached to this RSC? Yes No
(Do not include reports) (If Yes how many pages? ____)

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Table 2 (continued): Summary of Site Conditions - Background and Generic (Full Depth and Stratified) Approaches

Column I	Column II	Column III	Column IV
Chemical Name	Maximum Concentration Remaining at Sampling Locations (µg/L)	Appropriate Background or Generic Criteria (µg/L)	Sampling Location and Depth (m) (Location as shown on attached plan)
Groundwater (For all sites where groundwater testing was conducted.)			
Not Applicable.			

Are additional pages of Table 2 (Groundwater) attached to this RSC?
(Do not include reports)

Yes No
(If Yes how many pages? ___)

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Table 3: Summary of Site Conditions - Site Specific Risk Assessment Approach

Column I	Column II	Column III	Column IV
Chemical Name	Maximum Concentration Remaining at Sampling Locations (μg/g)	Appropriate Background or Generic Criteria (μg/g)	Sampling Location and Depth (m) (Location as shown on attached plan)
Soil Profile			
Not applicable.			

Are additional pages of Table 3 (Soil Profile) attached to this RSC?
 (Do not include reports)

Yes No
 (If Yes how many pages? ___)

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Table 3 (continued): Summary of Site Conditions - Site Specific Risk Assessment Approach

Column I	Column II	Column III	Column IV
Chemical Name	Maximum Concentration Remaining at Sampling Locations (µg/L)	Appropriate Background or Generic Criteria (µg/L)	Sampling Location and Depth (m) (Location as shown on attached plan)
Groundwater (Complete for all sites where groundwater testing was conducted; use Column IV to indicate screened interval)			
Not applicable.			

Are additional pages of Table 3 (Groundwater) attached to this RSC? ☐ Yes ☐ No
 (Do not include reports) (If Yes how many pages? ___)

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Part 4 - SUMMARY OF LEVEL 2 RISK MANAGEMENT MEASURES

Complete this Section if Level 2 Risk Management measures are in place at this site. Provide a summary of the Level 2 risk management measures and/or engineered controls which have been designed and implemented to allow reuse of the site as part of a Site Specific Risk Assessment approach as indicated in Part 3.2 of the RSC.

Not applicable.

Is there additional information on the Level 2 risk management measures used, attached as part of this RSC?

Yes No
 (If Yes, how many pages? __)

Was public communication undertaken as part of the risk assessment/risk management process ?

Yes No

Are there any ongoing monitoring or care requirements with respect to the Level 2 risk management measures?

Yes No

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Part 5 - AFFIDAVIT OF PRINCIPAL CONSULTANT

I Mark S. D'Arcy of the Municipality of Ottawa-Carleton in the Province of Ontario .

MAKE OATH AND SAY AS FOLLOWS:

1. I am the Associate of John D. Paterson and Associates Limited and have personal knowledge of the matters set out below.
2. I John D. Paterson and Associates Limited was retained or employed as the principal environmental consultant to undertake or supervise the assessment and restoration of the site (*strike out and initial if no restoration was undertaken*), located at 160 Spruce Street and 989 Somerset Street West, Ottawa, Ontario .
3. I am/ am not (*strike out and initial that which does not apply*) employed or retained by the site owner / agent of the owner, or the company operating on the site in any other capacity.
4. I had the expertise required to perform these services. The details of my expertise and the expertise of those subcontractors who performed services at the site are set out in the report(s) noted in Table 1, Part 2 of this RSC.
5. All subcontractors employed by me in connection with the assessment and restoration of the site (*strike out and initial if no restoration was undertaken*) warranted to me that they possessed or are known by me to possess the expertise required to perform the services for which they were employed and which were carried out.
6. The assessment activities and restoration activities (*strike out and initial if no restoration was undertaken*) at the site requiring the application of scientific principles have been undertaken or supervised by a natural scientist qualified to perform such services.
7. The assessment activities and restoration activities (*strike out and initial if no restoration was undertaken*) at the site requiring the application of engineering principles have been undertaken or supervised by a professional engineer qualified to perform such services.
8. The assessment activities and restoration activities (*strike out and initial if no restoration was undertaken*) at the site have been completed in accordance with the MOE *Guideline for Use at Contaminated Sites in Ontario*, Revised February 1997 Generally accepted geoscience practices and/or environmental practices and/or engineering practices were also followed where appropriate. None of the verification test results exceed the applicable criteria allowed for in the site assessment and/or restoration approach indicated in Part 3 of this RSC. Although the information represents the site conditions at the test locations at the time of sampling only, and conditions between and beyond the test locations may vary, I have collected sufficient information and taken all reasonable steps to form the opinion that the site meets the criteria for the land use set out in Part 3.2 of this RSC.

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Part 5 - Affidavit of Principal Consultant *(continues):*

9. I have prepared and/or reviewed the report(s) identified in Part 2, Table 1 of this RSC and am not aware of any soil, groundwater, or sediment contamination on or within the site which would interfere with its use for the categories of land use(s) and groundwater condition, set out in Part 3.2 of this RSC.
10. ~~The site specific risk assessment (SSRA) was prepared in accordance with the MOE *Guidance on Site Specific Risk Assessment for Use at Contaminated Sites in Ontario*, July 1996, and reviewed by an independent consultant who warranted to me that they possessed the expertise required to perform such review. (strike out and initial if no SSRA was undertaken).~~
11. I acknowledge that public authorities, parties acquiring or intending to acquire an interest in this site, current occupants and their consultants may rely on the statements in this RSC. Reliance on the statements contained herein is subject to the limitations and qualifications contained in the *MOE Guideline for Use at Contaminated Sites in Ontario*, Revised February 1997 and further subject to the actual use of the site since the date of this RSC.
12. I have made no modifications to this RSC except as allowed by the form.

SWORN BEFORE ME

at the City of Ottawa (Nepean)

in the Province of Ontario

this day of December, 2003

Signature of Consultant

28 Concourse Gate, Unit 1
Address

(613) 226-7381
Phone Number

Commissioner of Oaths

Carroll's Terminals Computer, a Commissioner, etc.

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Part 6 - STATEMENT OF SITE OWNER

This is to certify that ~~as the owner~~ / as the ^{MM}agent on behalf of the owner¹ (strike out and initial that which does not apply) of the site I have hired John D. Paterson and Associates Limited as the principal consultant to undertake, supervise or monitor the assessment and if necessary the restoration of the site to make it suitable for the land use(s) set out in Part 3.2. This is to confirm that the principal consultant has certified to me that the assessment and/or restoration activities have been completed in accordance with the Guideline. I (and/or the owner) agree to provide, on request, all reports listed in Table 1, Part 2 to municipal authorities dealing with the site and a party who is acquiring an interest in the site from me. I have undertaken reasonable inquiry into the previous ownership and uses of the property and to the best of my knowledge I have provided to the consultant, information relevant to the consultant's investigation of the environmental condition of the site, in the preparation of this RSC.

I acknowledge that this RSC becomes a public document after it has been acknowledged by the Ministry of the Environment. Any party intending to purchase, lease, take a security interest in, or occupy the site may review the RSC and any supporting documents to satisfy themselves with respect to the environmental condition of the site, and the extent of responsibility and liability that may arise from taking ownership, taking a security interest, or occupying the site.

I have made no modifications to this RSC except as allowed by the form.

Domicile Holdings (2000) Inc.
Name¹

1-371A Richmond Road, Ottawa, Ontario, K2A 0E7
Address for Correspondence

RR. M. M. M.
Signature

December 2nd, 2003
Date

¹ If you are signing as the agent of the owner written consent from the owner authorizing you to sign the RSC must be attached.

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Part 7 - MOE ACKNOWLEDGEMENT OF RECEIPT

The MOE acknowledges receipt of this RSC. The MOE has not reviewed, considered or commented on the content of the report(s) cited in Table 1, Part 2 of this RSC except where a site specific risk assessment has been submitted for review. MOE may review the report(s) cited in Part 2 of this RSC if the site is selected for audit. The MOE has not supervised the assessment and/or restoration work undertaken at the site and does not assume any responsibility or liability for the assessment, restoration or environmental conditions of the site, or for notifying future owners or present or future occupants of the site of the assessment, restoration or environmental condition of the site.

Proof of the quality of the site and of the effectiveness of the assessment or restoration undertaken at the site are the responsibility of the owner of the site and subsequent owners. Any persons intending to purchase or occupy the site must assess for themselves the environmental condition of the site, and the extent of responsibility and liability that may arise from taking ownership or from occupying the site.

Name of Provincial Officer (Print)

Signature of Provincial Officer

Date

Ottawa

Name of MOE District Office

2435 Holly Lane, Ottawa, Ontario

Address

Tel: (613) 521-3450 Fax: (613) 521-5437

Telephone and Fax Numbers

Where the Guideline provides that a Certificate under Section 197 of the *Environmental Protection Act* must be registered on title pursuant to a director's order, acknowledgement of receipt of this RSC will not be issued until such time as the director is provided with a duplicate copy of the Certificate and evidence that the Certificate has been registered on title.



JOHN D. PATERSON AND ASSOCIATES LIMITED

Ottawa

Consulting Engineers

Chartered Engineers

December 2, 2003

File: E2387-RSC

Ontario Ministry of the Environment

2435 Holly Lane

Ottawa, Ontario

Attention: **Mr. Mike Heeringa**

Subject: **Record of Site Condition**
160 Spruce Street and 989 Somerset Street West
Ottawa, Ontario

Dear Sir,

Attached is a copy of the Application for Site Plan Control Approval completed by Domicile Holdings (2000) Inc. for the City of Ottawa. The application was completed for the subject site and adjacent property to the east. As part of the application process, authorization was granted to Domicile Holdings (2000) Inc. by Mr. Erno Jakobovitz (415588 Ontario Limited) to act on behalf of the company for the proposed development project at the subject site. The authorization can be found on page 5 of the document.

We trust that this information meets your immediate requirements.

Sincerely,

John D. Paterson and Associates Limited


Mark S. D'Arcy, P. Eng



APPLICATION FOR SITE PLAN CONTROL APPROVAL

Section 41 of the Planning Act, RSO 1990, as amended

A meeting with City staff is encouraged prior to submission of this application.
This application form must be accompanied by the submission requirements in order to be considered a complete application. Incomplete applications will not be processed until all information is provided.

OFFICE USE ONLY	
Application No. _____	Application Received _____
Date of Preconsultation Meeting _____	Staff Person Present _____
Date of Application Deemed Complete _____	Staff Person Assigned _____
Fee Received _____	Ward # _____

REQUIRED FEE		
<input checked="" type="checkbox"/> New Site Plan, Director Approval, Public Consultation -	\$2,820	+ Initial Engineering Design Review and Inspection Fee + Initial Conservation Authority Fee
<input type="checkbox"/> Revised Site Plan, Director Approval, Public Consultation -	\$2,285	
<input type="checkbox"/> New Site Plan, Director Approval, No Public Consultation -	\$2,070	+ Initial Engineering Design Review and Inspection Fee
<input type="checkbox"/> Revised Site Plan, Director Approval, No Public Consultation -	\$1,285	
<input type="checkbox"/> Assigned Planner Approval -	\$300	
<input type="checkbox"/> New or Revision, Rural Based, No Public Consultation -	\$150	

+ Initial Conservation Authority Fee		
<input checked="" type="checkbox"/> Central Planning Area - Wards 7, 8, 9, 12, 13, 14, 15, 16, 17, 18	\$50 or	
<input type="checkbox"/> Non-Central Area Full Municipal Services	\$350 or	
<input type="checkbox"/> Non-Central Area Private On-Site Services	\$700	
+ Initial Engineering Design Review and Inspection Fee		
<input type="checkbox"/> Value of Infrastructure and Landscaping <\$50,000	\$1,000 or	
<input checked="" type="checkbox"/> Value of Infrastructure and Landscaping \$50,000-\$300,000	\$5,000 or	
<input type="checkbox"/> Value of Infrastructure and Landscaping >\$300,000	\$10,000	

BRIEF DESCRIPTION OF THE APPLICATION
<p><u>NEW RESIDENTIAL CONDOMINIUM PROJECT CONSISTING OF:</u></p> <p><u>ONE - 5 STOREY APARTMENT BLDG - 59 UNITS</u></p> <p><u>FOUR - 3 STOREY STACKED UNIT TOWNHOUSES - 32 UNITS</u></p> <p style="text-align: right;"><u>TOTAL: 91 UNITS</u></p>

LEGAL DESCRIPTION			
Municipal Address	148-158 Spruce St.; 160 Spruce St.; 989 Somerset St. West		
Legal Description	Lot(s) <u>1, 2, 3, 4, 5 (S. Spruce)</u>	Part(s) _____	Block(s) <u>A</u>
Plan	<u>73</u>	Lot _____	Concession _____
	<u>City of Ottawa</u>		Other _____
Lot Front	<u>113.82</u> m	Lot Depth <u>30.26 / 60.66</u> m	Lot area <u>4830.6</u> m ²

SUBMISSION REQUIREMENTS

(to be checked off by the applicant)

	NEW	REVISION	ASSIGNED PLANNER	REFUND BASED ON
Site Plan	<input checked="" type="checkbox"/> 65 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints
Landscape Plan	<input checked="" type="checkbox"/> 65 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints
OR				
Combined Landscape and Composite Site Servicing Plan (only for new construction 250 m ² gfa or more)	<input checked="" type="checkbox"/> 65 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints	<input checked="" type="checkbox"/> 20 prints
Grade Control and Drainage Plan	<input checked="" type="checkbox"/> 65 prints	<input checked="" type="checkbox"/> 20 prints	N/A	<input checked="" type="checkbox"/> 20 prints
Plan of Survey	<input checked="" type="checkbox"/> 2 copies			
Floor Plans and Building Elevations (if applicable)	<input checked="" type="checkbox"/>			
<input checked="" type="checkbox"/> Municipal Environmental Evaluation (applicable only within the former City of Ottawa boundaries)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> and report (if applicable)	<input checked="" type="checkbox"/> 4 copies	

NOTE: All prints must be folded to 21.6 cm x 35.6 cm (8 1/2" x 14")

SUBMISSION REQUIREMENTS (continued)

(The applicant/agent is responsible for ensuring that the submission requirements are met, including confirming that all the information listed below is shown on the required plans, by checking off each box.)

- Plan of Survey (signed by an Ontario Land Surveyor)**
- Up to date survey plan or reference plan related to geodetic survey control
 - Registered Deed or Offer of Purchase and Sale
- Site Plan: clearly showing (in metric):**
- Title, location, and date of project
 - Name and address of i) developer/owner and agent(s), ii) designer(s), engineer(s) and surveyor(s);
 - i) Legend, ii) north arrow (oriented to top of page), and scale (graphic bar scale as well as written ratio scale);
 - i) Area of the site, ii) bearings and lengths of all property lines;
 - Clear delineation of limit of site development and existing features within 5 metres of limit;
 - Proposed surface drainage pattern with either spot elevations or existing and proposed contours at 0.5 metres for slopes of less than 5%. Off-site grades and major topographic features should be indicated;
 - Existing features to be retained, removed or relocated;
 - Areas labeled by function or type – e.g., landscape areas, parking areas, access points, etc.;
 - Dimensions of all proposed buildings, roads, radii of turns, overhead clearances, parking areas with defined parking spaces, steps, terraces, fences, walks, aisles and private approaches (driveways);
 - Dimensions required for zoning compliance;
 - Gross floor area of all buildings, including type of dwelling units and breakdown of other uses by floor area;

SUBMISSION REQUIREMENTS (continued)

Landscape Plan: clearly showing:

- Title, location and date of project;
- Name and address of i) developer/owner and agent(s), and ii) designer(s), engineer(s) and surveyor(s);
- i) Legend, ii) north arrow (oriented to top of page), and scale;
- Existing landscaping features to be retained, removed or relocated including those on the road allowance;
- Proposed vegetation – trees, shrubs, ground covers (botanical and common name), size of material, areas to be seeded, sod or required special treatment;
- Road allowance details including trees, shrubs or any other plant material and their dimensions.

– OR –

Combined Landscape and Composite Site Servicing Plan
(only for new construction 250^m gfa or more)

- All information in Landscape Plan noted above;
- All servicing for each unit, or a detail showing typical services for the unit;
- Locations of street furniture, trees and lighting, mail boxes, bus stops, hydrants, transformers and pedestals;
- All utility easements; if there is a joint trench, the utilities should be noted;
- Connection of driveways and lot services to City street and services.

Grade Control and Drainage Plan

- Existing elevations on subject and adjacent lands and along centerline or adjacent public streets, which are to be geodetic;
- Location of any creeks, ravines or watercourses with elevations and contours;
- Finished elevation at the building lines and at all critical points such as catch basins and adjacent lands;
- Arrows indicating the proposed direction of flow of all surface water;
- Location and details of swales;
- Location and details of all surface water outlets;
- Location and details of catch basins, rip-rap, rock and retaining walls, size and gauge of metal culverts;
- Dimensions of box culverts, depth and quality of asphalt, curbing, servicing and connections;
- Location and width of any existing or proposed rights-of-way and easements on or over the subject or abutting lands including any road widenings.
- Location of any hydro poles, fire hydrants or other installations including those on adjacent lands.
- A benchmark or temporary benchmark is to be indicated.

PRE-CONSULTATION / PUBLIC NOTIFICATION

If this application is subject to public notification, have you contacted the Ward Councillor and Community Groups representative(s) to explain this proposal?

YES

NO

Met with Councillor Elisabeth Arnold

List of contact names provided by a representative of the Department of Development Services, Client Services Centre, Main City Hall or Satellite Centre.

Archie Campbell, David Seaborn of Dalhousie Community Association.

(as part of the re-zoning application)

CONTACT INFORMATION

Municipal Information and Protection Act, 2001. Personal information on this form is collected under authority of The Planning Act and will be used to process this application.

NAME/TITLE	MAILING ADDRESS and POSTAL CODE	PHONE NO. FAX NO. E-MAIL ADDRESS
Applicant/Agent DOMICILE HOLDINGS (2000) INC. (Rick Morris)	SUITE 1, 371A Richmond Rd Ottawa, Ontario K2A 0E7	(P) - 728-0388 (F) - 728-0063 (E) - rick@domicile.on.c
Property Owner(s) (See attached)		(P) - (F) - (E) -
Architect/Designer/Planner Robert Webster Architect (Robert Webster)	370 Churchill Ave. North Suite 202 Ottawa, Ont K1Z 5C2	(P) - 724-2113 (F) - 724-2114 (E) - awa@awa-arch
Engineer (Civil) T.L. Mak & Associates (Tony Mak)	1455 Youville Dr. Suite 218 Orleans, Ontario K1C 6Z7	(P) - 837-5516 (F) - 837-5277 (E) - N/A
Ontario Land Surveyor Annis O'Sullivan Vollebek Ltd. (Ian Watson)	14 CONCOURSE Gate, Suite 500. Nepean, Ontario K2E 7S6	(P) - 727-0850 (F) - 727-1079 (E) - i.watson@ aovltd.com

DESCRIPTION OF PROPOSAL

- Type of development proposed: (use, new building or addition, etc.)
NEW RESIDENTIAL CONDOMINIUM PROJECT CONSISTING OF:
1 - FIVE STOREY APARTMENT BUILDING - 59 UNITS
4 - 3 STOREY STACKED TOWNHOUSE BLOCKS - 32 UNITS; TOTAL 91 UNITS
 - Existing Use of Land: COMMERCIAL
 - Is development to be phased? YES NO
 - What is your anticipated date for start of construction? FALL 2003 YES NO
 - Is the land to be divided for mortgage purposes? YES NO
 - Will the proposed development result in the creation of a new private road? YES NO
- If Yes, an application for street naming will have to be submitted in conjunction with this application.

DESCRIPTION OF PROPOSAL (continued)

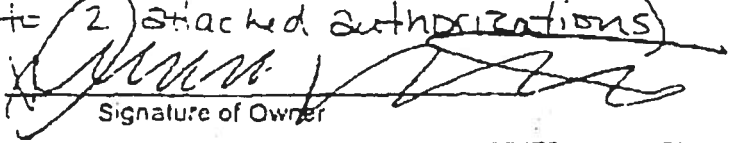
Site Information	Existing (m ²)	Proposed (m ²)	Total (m ²)
Gross Floor Area (including basement)	1892.4 m ²	3177 m ² 986 m ²	3177 m ² (Stacked Town 986 m ² (Apartment))
Gross Leasable Floor Space (commercial)	1892.4 m ²	N/A	N/A
Building Height (metres)	APPROX. 6 M ±	11.7 M 19.0 M	11.7 M (Stacked Town) 19.0 M (Apartment)
Building Height (storeys)	ONE / TWO	3 storeys 5 storeys	3 storeys & 5 storeys
Dwelling Units	0	91	91
Site Coverage	Unknown.	2330.1	2330.1
Parking Spaces (conforming to Zoning By-law)	Unknown.	85	85

DECLARATIONS

Authorization of Owner for Agent to make the Application

If the application is to be signed by an applicant/agent/solicitor on behalf of the owner, the following authorization must be completed or the owner must submit a letter of authorization.

I, ERNO JAKABOVITZ, am the owner of the land that is subject of this application and I authorize DOMICILE HOLDINGS (2000) INC. to make this application on my behalf.

(Refer to 2 attached authorizations)

 Signature of Owner

29 MAY 03
 Date

Statement Concerning Potential for Site Contamination

I have considered the previous uses of this property and the uses of the lands immediately adjacent (e.g. - landfill site, former gas station, road construction waste), and am satisfied that there are no former uses that may have caused contamination of this site.


 Signature of Applicant

Affidavit or Sworn Declaration that the Information is Accurate

I, RICHARD MORRIS, of the City of Ottawa, solemnly declare that all of the above statements contained in the application are true and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under Oath and by virtue of The Canada Evidence Act.

SWORN (or Declared) BEFORE ME

At _____

This _____ day of _____, 2003

Commissioner of Oaths

Signature of Applicant

DESCRIPTION OF PROPOSAL (continued)

Site Information	Existing (m ²)	Proposed (m ²)	Total (m ²)
Gross Floor Area (including basement)	1892.4 M ²	3177 M ² 9866 M ²	3177 M ² (Stacked Townhouses) 9866 M ² (Apartment)
Gross Leasable Floor Space (commercial)	1892.4 M ²	N/A	N/A
Building Height (metres)	Approx. 6 M ±	11.7 M 19.0 M	11.7 M (Stacked Townhouses) 19.0 M (Apartment)
Building Height (storeys)	ONE / TWO	3 storeys 5 storeys	3 storeys & 5 storeys
Dwelling Units	∅	91	91
Site Coverage	unknown.	2330.1	2330.1
Parking Spaces (conforming to Zoning By-law)	unknown.	85	85

DECLARATIONS

Authorization of Owner for Agent to make the Application

If the application is to be signed by an applicant/agent/solicitor on behalf of the owner, the following authorization must be completed or the owner must submit a letter of authorization.

I, _____, am the owner of the land that is subject of this application and I authorize DOMICILE HOLDINGS (2000) INC. to make this application on my behalf. *(Refer to 2 attached authorizations)*

_____ Date

_____ Signature of Owner

Statement Concerning Potential for Site Contamination

I have considered the previous uses of this property and the uses of the lands immediately adjacent (e.g. – landfill site, former gas station, road construction waste) and am satisfied that there are no former uses that may have caused contamination of this site.

R.R. Morris

Signature of Applicant

Affidavit or Sworn Declaration that the Information is Accurate

I, RICHARD MORRIS, of the City of Ottawa, solemnly declare that all of the above statements contained in the application are true and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under Oath and by virtue of *The Canada Evidence Act*.

SWORN (or Declared) BEFORE ME

At City of Ottawa

This 29th day of May, 2003.

[Signature]

Commissioner of Oaths *Sheilagh Ann Healy*
etc., Regional
for Domicile
and Affiliated

R.R. Morris

Signature of Applicant

Ce document est disponible en français.

148-158 Spruce Street, Ottawa

Property Owner:

1258896 Ontario Inc. and Ghanem Bros Ltd.

Mailing Address:

c/o NAI Commercial

Attention: Ernie Potechin and Manny Agulnik

200 Catherine Street, Ottawa, Ontario K2P 2K9

Phone no.: (613) 230-2100

Fax no.: (613) 230-3454

160 Spruce Street and 989 Somerset Street West, Ottawa

Property Owner:

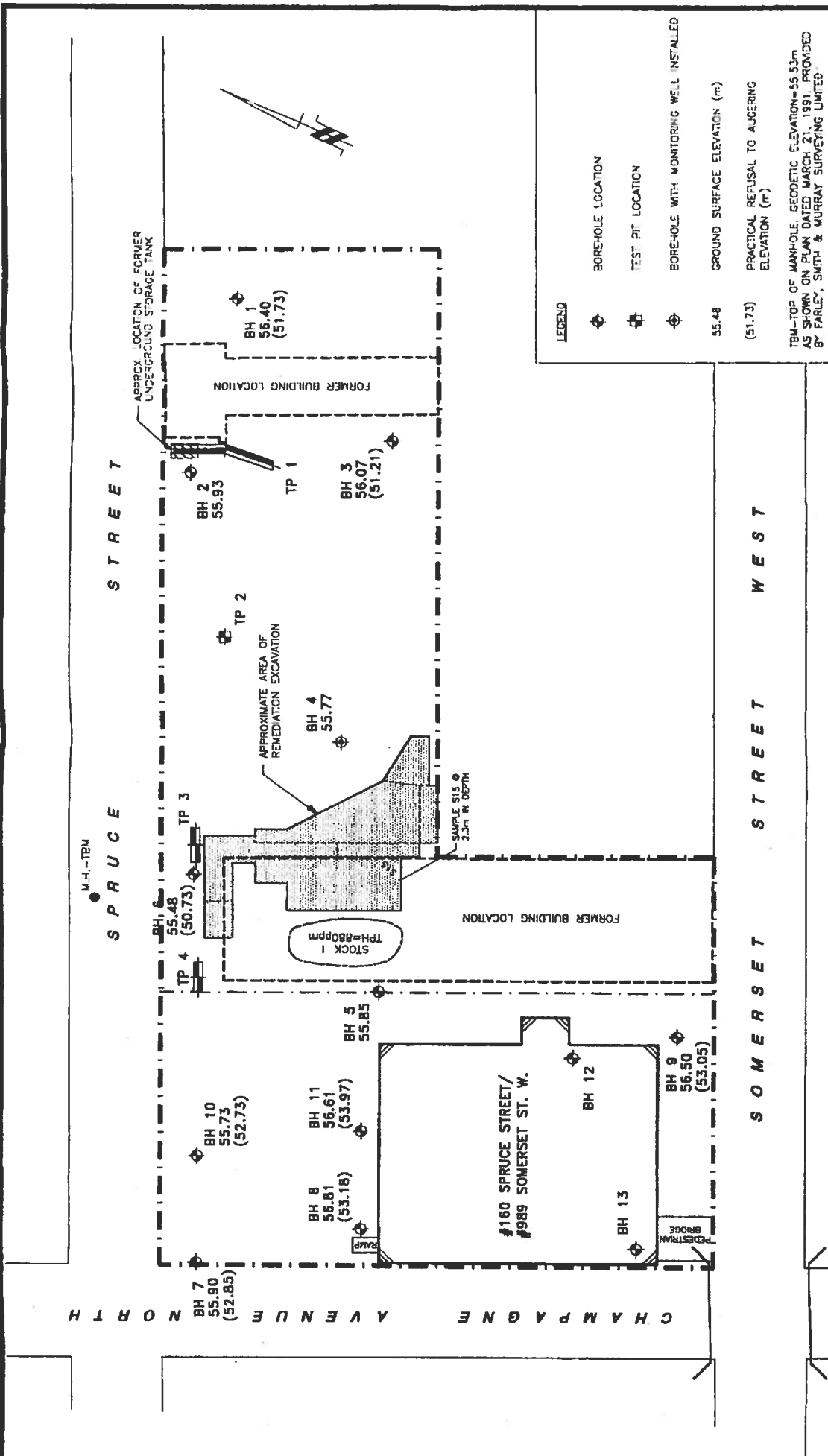
415588 Ontario Ltd.

Mailing Address:

19500 Trans Canada HWY, Baie d'urfé, Quebec, H9X 3S8

Phone no.: (514) 457-1512

Fax no.: (514) 457-0883



JOHN D. PATERSON AND ASSOC. LTD.
 Consulting Engineers
 28 Concourse Gate, Unit 1, Nepean, Ontario K2E 7T7

DOMICILE DEVELOPMENTS INC.
 RECORD OF SITE CONDITION
 148-160 SPRUCE STREET
 OTTAWA, ONTARIO

Site Plan

Eng. No. **E2387-3**
 Report No. E2387-RSC
 Date: 10/2003



File Number: C10-01-14-0021

February 13, 2014

Dan Arnott
Paterson Group
154 Colonnade Road South
Ottawa, ON
K2E 7J5

Sent via email [DArnott@patersongroup.ca]

Dear Mr. Arnott,

**Re: Information Request
989 Somerset Street West, Ottawa, Ontario (“Subject Property”)**

Internal Department Circulation

The Planning and Growth Management Department has the following information in response to your request for information regarding the Subject Property:

- The Disposals & Environmental Remediation Unit notes that the Subject Property is within 500m of two former landfills; Ur-06 – Nepean Bay Dump (Ottawa River Parkway, East of CPR Prince of Wales Bridge), and Ur-41 – Bayswater Avenue and Wellington Street. The City has no information regarding the current environmental conditions of either site as these former landfills are under private ownership.

Search of Historical Land Use Inventory

This acknowledges receipt of the signed Disclaimer regarding your request for information from the City’s Historical Land Use Inventory (HLUI 2005) database for the Subject Property.

A search of the HLUI database revealed the following information:

- There are nine activities associated with the Subject Property: Activity Number 11237, 12285, 12316, 12317, 1245, 13631, 14040, 7304, and 9972.

*Shaping our future together
Ensemble, formons notre avenir*

City of Ottawa
Infrastructure Services and Community
Sustainability Department
Planning and Growth Management Branch

110 Laurier Avenue West, 4th Floor
Ottawa, ON K1P 1J1
Tel: (613) 580-2424 ext. 14743
Fax: (613) 560-6006
www.ottawa.ca

Ville d'Ottawa
Services d'infrastructure et Viabilité des
collectivités
Direction de l'approbation des demandes
d'aménagement et d'infrastructure

110, avenue Laurier Ouest, 4e étage
Ottawa (Ontario) K1P 1J1
Tél.: (613) 580-2424 ext. 14743
Télééc: (613) 560-6006
www.ottawa.ca

The HLUI database was also searched for activity associated with properties located within 50m of the Subject Property. The search revealed the following:

- There are 44 activities associated with properties located within 50m of the Subject Property: Activity Number 11237, 12285, 1245, 13631, 1732, 2096, 215, 2600, 4105, 4469, 5422, 886, 9972, 13514, 14289, 15090, 8804, 9971, 5312, 5422, 7595, 10354, 1050, 12144, 13350, 14243, 3825, 619, 801, 13514, 14289, 15090, 4437, 8804, 9971, 14550, 6309, 9085, 14550, 6309, 1005, 12959, 3972 and 10700.

Please note that Activity Numbers 5422, 11237, 1245, 2600, 4105, 9972, 6309, 4437, 619, 12144, and 13350 have a PIN Certainty of "2". This identifier acknowledges that there is some uncertainty about the exact location of the land use activity and that the activity may or may not have been located on the Subject Property or on certain properties within 50m of the Subject Property. All database entries with a PIN Certainty of "2" require independent verification as to their precise location.

A site map has been included to show the location of the Subject Property as well as the location of all the activities noted above, including the HLUI database's location of the Activity Numbers with a PIN Certainty of "2".

Additional information may be obtained by contacting:

Ontario's Environmental Registry

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

Or

The Ontario Land Registry Office

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

Please note, as per the HLUI Disclaimer, that the information contained in the HLUI database has been compiled from publicly available records and other sources of information. The HLUI may contain erroneous information given that the records used as sources of information may be flawed. For instance, changes in municipal addresses over time may introduce error. Accordingly, all information from the HLUI database is

provided on an "as is" basis with no representation or warranty by the City with respect to the information's accuracy or exhaustiveness in responding to the request.

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

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

If you have any further questions or comments, please contact John Bernier at 613-580-2424 ext. 14743 or HLUI@ottawa.ca

Sincerely,

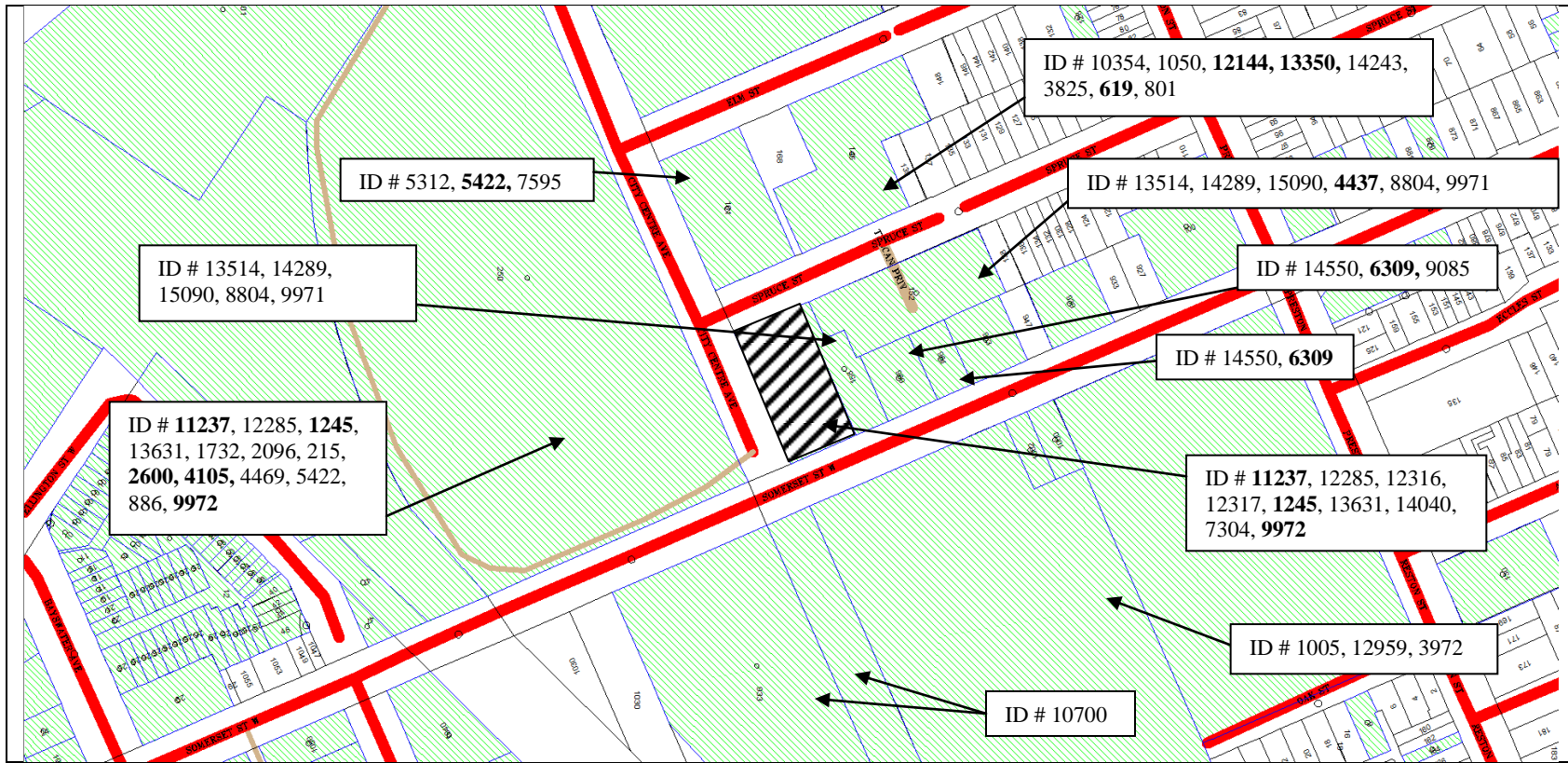


David Wise, MUP, MCIP, RPP
Program Manager
Development Review (Suburban Services) - West
Planning and Growth Management Department

DW/JB

Attach: 46

cc: File no. C10-01-14-0021




Scale 1: n/a

989 Somerset Street East
 Ottawa, ON
 File # C10-01-14-0021
 John Bernier



ID# = Activity Identification Number

 = Subject Site

Overview



CITY OF OTTAWA
 HLUI ID: __670IRN
 AREA (Square Metres): 44649.474

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:09:41

Study Year
1998

PIN
041070039

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 1005 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 041070039

Name: ALAN NONTELL - MAINTENANCE SUPPORT

Address: 1010 SOMERSET STREET, OTTAWA

Facility Type: General Administrative Services

Comments 1:

Comments 2: PLOUFFE PARK

Generator Number: ON3451496

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
911910	0

Company Name

ALAN NONTELL - MAINTENANCE SUPPORT

Year of Operation

c. 2003



CITY OF OTTAWA
 HLUI ID: __670IRN
 AREA (Square Metres): 44649.474

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:09:41

Study Year: 1998 PIN: 041070039 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 12965 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 7049
 Related PINS: 041070039

Name: SPARK'S ESTATE SOUTH YARD - J.R. BOOTH
 Address: SOMERSET STREET, OTTAWA
 Facility Type: Lumber and Building Materials, Wholesale

Comments 1:
 Comments 2:

Generator Number:
 Storage Tanks:

HL References 1: FIP1901-119-829,831,834A,8343-vol2; FIP-1901-121-834A,834B,835-vol2; FIP1912-121-834,835-vol2; FIP1922-121-834A,834B,835-vol2, M.1920

HL References 2:
 HL References 3:

NAICS	SIC
444110	563
416320	563
416340	563
444190	563
416310	563
444120	563

Company Name	Year of Operation
Spark's Estate South Yard - J.R. Booth	c. 1901



CITY OF OTTAWA
 HLUI ID: __670IRN
 AREA (Square Metres): 44649.474

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:09:41

Study Year: 1998 PIN: 041070039 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 3972 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 1388
 Related PINS: 041070039
 Name: DEPT. OF SUPPLY AND SERVICES
 Address: 1010 SOMERSET STREET WEST, OTTAWA
 Facility Type: Commercial Printing Industries
 Comments 1: R. C. O. C. - central ordnance depot
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: M.1949, M.1957, M.1960, M.1970, M.1980; FIP1912-118-832,Vol2; FIP1922-119-832,Vol2; FIP1948-319-832; FIP1956-319-2-832
 HL References 2:
 HL References 3:

NAICS	SIC
323115	281
323116	281
323114	281
911910	815
323119	281

Company Name	Year of Operation
R. C. O. C.	c. 1956
Gov't of Canada - Dept. of Supply and Services	c. 1970-1980



CITY OF OTTAWA

HLUI ID: __679B9Y

AREA (Square Metres): 6009.161

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:13:43

Study Year
2005

PIN
041070029

Multi-NAIC
N

Multiple Activities
N

Activity ID: 10700 Multiple PINS: Y

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 041070029

Name: PUBLIC WORKS AND GOVERNMENT SERVICES CANADA

Address: 933 GLADSTONE AVENUE, OTTAWA

Facility Type: General Administrative Services

Comments 1: LIBRARY-PARLIAMENT HILL-EAST, WEST, CENTRE BLK

Comments 2:

Generator Number: ON0144723

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2000 PID

NAICS	SIC
911910	0

Company Name	Year of Operation
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA	c. 2001
PUBLIC WORKS AND GOVERNMENT SERVICES CANADA	c. 2000



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 11237 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 856
 Related PINS: 040980009

Name: R.L. CRAIN LIMITED
 Address: 989 SOMERSET STREET WEST, OTTAWA
 Facility Type: Platemaking, Typesetting and Bindery Industry

Comments 1:
 Comments 2:
 Generator Number:

Storage Tanks:

HL References 1: M.1921, M.1964, M.1949; FIP1901-119-828,vol1; FIP1912-119-828,vol2; FIP1922-119-828,vol1;
 FIP1948-116-828,vol1; FIP1963-116-1-703,vol1. M.1900, M.1910, M.1920, M.1930, M.1940, M.1950

HL References 2:

HL References 3:

NAICS	SIC
323116	281
323119	281
323114	281
493190	479
493130	479
323120	282
493120	479
323115	281
812921	282

Company Name	Year of Operation
R.L. Crain Ltd.	c. 1948-1964
Department of Veterans Affairs-Printing & Stationary Branch	c. 1949-1950



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year 1998 PIN 040980009 Multi-NAIC Y Multiple Activities Y

Activity ID: 12285 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 3143
 Related PINS: 041070124
 Name: ROBERT TAPE LIMITED
 Address: 989 SOMERSET STREET WEST,
 Facility Type: Machine Shop Industry
 Comments 1:
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: M.1960, M.1970, M.1971, M.1980; S.1970/71; SC98; PID1994
 HL References 2:
 HL References 3: 2005 Select Phone

NAICS	SIC
332991	319
333910	319
333120	319
336510	319
333220	319
333110	319
336211	319
336350	308
333619	308
332710	308
333210	319
333291	319
333299	319
335990	319
336310	308
332710	0
333130	319
333611	319
336120	319

Company Name

Robert Tape Ltd.
 ROBERT TAPE LIMITED

Year of Operation

c. 1970-1998
 c. 2005



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 1245 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 1335
 Related PINS: 040980009

Name: BAKER BROTHERS SASH AND DOOR FACTORY
 Address: 989 SOMERSET STREET WEST, OTTAWA
 Facility Type: Sash, Door and Other Millwork Industries

Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950

HL References 2:

HL References 3:

NAICS	SIC
321992	254
337110	254
321911	254
321215	254

Company Name

Baker Brothers Sash and Door Factory

Year of Operation

c. 1940-1950



CITY OF OTTAWA
 HLUI ID: __679GEC

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

AREA (Square Metres): 32606.644

Study Year 1998	PIN 040980009	Multi-NAIC Y	Multiple Activities Y
---------------------------	-------------------------	------------------------	---------------------------------

Activity ID: 13631 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 1603
 Related PINS: 040980009

Name: W. C. EDWARDS AND COMPANY LIMITED
 Address: 991 SOMERSET STREET WEST, OTTAWA
 Facility Type: Sawmill, Planing Mill and Shingle Mill Products Industries
 Comments 1: Shavings press, planing mills, machine shop, kiln, carpentry shop, open yards, offices. No # 991 Somerset W. listed in M.1964. CNR tracks/siding on east & west of property.

Comments 2:
 Generator Number:
 Storage Tanks:

HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1956, M.1958, M.1961, M.1964; S.1958, S.1961, S.1964, S.1965; FIP1901-112-825,vol2; FIP1912-112-825,vol2; FIP1948-320-825; FIP1956-320-825

HL References 2:
 HL References 3:

NAICS	SIC
321112	251
444110	563
416320	563
321920	251
321919	251
444120	563
416310	563
444190	563
321111	251
321215	254
337110	254
416340	563
321911	254
321992	254

Company Name	Year of Operation
---------------------	--------------------------

Sparks Estate North Yard, J.R. Booth

W. C. Edwards and Company Ltd. c. 1912-1965



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year 1998 PIN 040980009 Multi-NAIC Y Multiple Activities Y

Activity ID: 1732 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 4208
 Related PINS: 040980005
 Name: BLM TRADE PRINTERS LIMITED
 Address: 880 WELLINGTON STREET, OTTAWA
 Facility Type: Platemaking, Typesetting and Bindery Industry
 Comments 1: BAY 226
 Comments 2:
 Generator Number: ON2039600
 Storage Tanks:
 HL References 1: SC98
 HL References 2:
 HL References 3: 2000 PID

NAICS	SIC
323116	281
333511	0
323115	281
323119	281
323120	0
812921	0
323114	281

Company Name	Year of Operation
Bim Trade Printers Ltd.	c. 1998
BLM TRADE PRINTERS LIMITED	c. 2000
BLM TRADE PRINTERS LIMITED	c. 2005



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year 1998 PIN 040980009 Multi-NAIC Y Multiple Activities Y

Activity ID: 2096 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 6868
 Related PINS: 040980009
 Name: BROWNS CLEANERS & TAILORS LIMITED
 Address: 6 CHAMPAGNE AVENUE NORTH, OTTAWA
 Facility Type: Laundries and Cleaners
 Comments 1:
 Comments 2:
 Generator Number: ON0443200
 Storage Tanks:
 HL References 1: PID1994; SC98
 HL References 2:
 HL References 3: 2000 PID

NAICS	SIC
561740	972
812310	972
812330	972
812320	972
812320	0

Company Name	Year of Operation
BROWNS CLEANERS & TAILORS LIMITED	c. 2001
BROWNS CLEANERS & TAILORS LIMITED	c. 2000
Browns Cleaners & Tailors Ltd.	c. 1994-1998
BROWNS CLEANERS & TAILORS LIMITED	c. 2003



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 215 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 4976
 Related PINS: 040980005
 Name: APPLIED GRAPHICS VISUAL PLANNING
 Address: 880 WELLINGTON STREET,
 Facility Type: Photographic Equipment and Musical Instruments and Supplies, Wholesale
 Comments 1: #1
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: SC98
 HL References 2:
 HL References 3: 2005 Select Phone

NAICS	SIC
334610	399
322230	279
334610	0
414130	0
325999	279

Company Name	Year of Operation
Applied Graphics Visual Planning	c. 1998
ARTEXT ELECTRONIC PUBLISHING	c. 2005
APPLIED GRAPHICS VISUAL PLANNING	c. 2005



CITY OF OTTAWA
 HLUI ID: __679GEC

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

AREA (Square Metres): 32606.644

Study Year
 1998

PIN
 040980009

Multi-NAIC
 Y

Multiple Activities
 Y

Activity ID: 2600 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 4394
 Related PINS: 040980003

Name: CANADIAN PACIFIC RAILWAY YARD
 Address: WELLINGTON STREET, OTTAWA

Facility Type: Machine Shop Industry

Comments 1: - south side of Wellington M. 1920 - lists as # 912 - 914 FIP1901 - coal bins - cattle pens Round house, coal pockets and sand dryer, coal shed and machine shop

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1900, M.1910, M.1912, M.1920, M.1922, M.1930, M.1940, M.1948, M.1950, M.1956; FIP1901-112-813,vol2; FIP1912-112-813,vol2; FIP1912-111-810,vol2;

HL References 2: FIP1922-111-810,Vol2; FIP1948-320-813; FIP1948-317-810; FIP1956-317-810; FIP1956-320-813

HL References 3:

NAICS	SIC
419120	511
336350	308
483116	453
333619	308
332710	308
412110	511
336310	308
482113	453
454310	511
482114	453
482112	453
488210	453

Company Name

Canadian Pacific Railway Yard

Year of Operation

c. 1901-1956



CITY OF OTTAWA
HLUI ID: __679GEC
AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
Run On: 17 Jan 2014 at: 15:14:52

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 4105 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 5847, 5618
Related PINS: 040980005
Name: JULES PATRY LIMITED
Address: WELLINGTON STREET, OTTAWA
Facility Type: Other Chemical Products Industries
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950; SC98
HL References 2:
HL References 3:

NAICS	SIC
325910	379
325920	379
325520	379

Company Name	Year of Operation
D & E McEwan	c. 1920
Jules Patry Ltd.	c. 1998



CITY OF OTTAWA
 HLUI ID: __679GEC
 AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 4469 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 4207
 Related PINS: 040980005
 Name: DISPLAY LAMINATING
 Address: 880 WELLINGTON STREET, OTTAWA
 Facility Type: Other Textile Products Industries
 Comments 1:
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: SC98
 HL References 2:
 HL References 3: 2001 Employment Survey

NAICS	SIC
321217	259
321216	259
313320	0
337920	259
339950	0
339950	397
321114	259
322230	279
325999	279

Company Name	Year of Operation
DISPLAY LAMINATING	c. 2001
Display Laminating	c. 1998
VISION FORM INC.	c. 2005



CITY OF OTTAWA
 HLUI ID: __679GEC

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

AREA (Square Metres): 32606.644

Study Year 1998 PIN 040980009 Multi-NAIC Y Multiple Activities Y

Activity ID: 5422 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 4401
 Related PINS: 040980005
 Name: F.W. ARGUE LIMITED
 Address: 128 CHAMPAGNE AVENUE, OTTAWA
 Facility Type: Petroleum Products, Wholesale
 Comments 1: FIP1912 - vacant lot - lumber shed, coal sheds (1 sm. 1 XL), open lumber yard
 Comments 2:
 Generator Number:
 Storage Tanks: 2 UST - gasoline
 HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1956, M.1960, M.1970, M.1980;
 FIP1901-112-825,vol2; FIP1912-112-825,vol2; FIP1948-320-825; FIP1956-320-825
 HL References 2:
 HL References 3:

NAICS	SIC
444110	563
416310	563
454310	511
419120	511
493190	479
412110	511
324121	369
416340	563
444190	563
493130	479
416320	563
444120	563
493120	479

Company Name	Year of Operation
F.W. Argue Ltd.	c. 1930-1960
Spark's Estate North Yard - J.R. Booth	c. 1901-1912



CITY OF OTTAWA
 HLUI ID: __679GEC

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:14:52

AREA (Square Metres): 32606.644

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 886 Multiple PINS: Y
 PIN Certainty: 1 Previous Activity ID(s) : 1910, 4209
 Related PINS: 040980005
 Name: TRAVERS 1910 LIMITED
 Address: 880 WELLINGTON STREET, OTTAWA
 Facility Type: Commercial Printing Industries
 Comments 1: UNIT 224
 Comments 2:
 Generator Number: ON1746200
 Storage Tanks:
 HL References 1: M.1960, M.1970, M.1971, M.1980; S.1970/71; SC98; PID994
 HL References 2:
 HL References 3: 2000 PID

NAICS	SIC
511110	284
323116	281
323114	281
511120	284
323114	0
323115	0
512230	284
323120	282
511130	284
812921	282
323115	281
323119	281

Company Name	Year of Operation
Aarkdale Design and Offset Printing Inc	c. 1998
Campbell Printing Co.	c. 1970
Travers 1910 Ltd.	c. 1994
MARQUARDT PRINTING	c. 2005
Fairburn Studios Ltd.	c. 1970-1971
Rapid Grip and Batten Ltd.	c. 1970
TRAVERS 1910 LIMITED	c. 2000
K.G. Campbell Corporation	c. 1994
Data Business Forms	c. 1998
PRINTING CENTER	c. 2005



CITY OF OTTAWA

HLUI ID: __679GEC

AREA (Square Metres): 32606.644

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:14:52

Study Year
1998

PIN
040980009

Multi-NAIC
Y

Multiple Activities
Y



CITY OF OTTAWA
HLUI ID: __679GEC

Report: RPTC_OT_DEV0122
Run On: 17 Jan 2014 at: 15:14:52

AREA (Square Metres): 32606.644

Study Year: 1998 PIN: 040980009 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 9972 Multiple PINS: Y
PIN Certainty: 2 Previous Activity ID(s) : 604
Related PINS: 040980009
Name: OTTAWA STAIRWORKS LIMITED
Address: 989 SOMERSET STREET, OTTAWA
Facility Type: Other Wood Industries
Comments 1:
Comments 2:
Generator Number:
Storage Tanks:
HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950; FIP1901-119-828,vol2. FIP1912-119-828,vol2. FIP1922-119-828.
HL References 2:
HL References 3:

NAICS	SIC
321215	254
321114	259
321217	259
321216	259
321911	254
337110	254
337920	259
321992	254

Company Name: Ottawa Stairworks Ltd. Year of Operation: c. 1910-1930



CITY OF OTTAWA

HLUI ID: __679GYK

AREA (Square Metres): 2250.812

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:02

Study Year
1998

PIN
041070154

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 5312

Multiple PINS: N

PIN Certainty: 1

Previous Activity ID(s) : 5545, 5534

Related PINS: 041070154

Name: F. W. ARGUE LIMITED

Address: 161 SPRUCE STREET, OTTAWA

Facility Type: Motor Vehicle Repair Shops

Comments 1: M. 1956, M. 1963 Located at #236 Bank St as coal, coke and fuel oil company

Comments 2:

Generator Number:

Storage Tanks: FIP1963- One (1) UST

HL References 1: M.1922, M.1949, M.1956, M.1963, M.1960, M.1970, M.1980; FIP1901-113-826,Vol2; FIP1912-113-826,Vol2; FIP1922-113-826,Vol2; FIP1948-116-826; FIP1953-116-1-826

HL References 2:

HL References 3:

NAICS	SIC
811119	635
811112	635
811121	635

Company Name

Year of Operation

Foster's Garage

c. 1960

F. W. Argue Ltd.

c. 1948-1963



CITY OF OTTAWA
 HLUI ID: __679GYK

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:23:02

AREA (Square Metres): 2250.812

Study Year 1998 PIN 041070154 Multi-NAIC Y Multiple Activities Y

Activity ID: 5422 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 4401
 Related PINS: 040980005
 Name: F.W. ARGUE LIMITED
 Address: 128 CHAMPAGNE AVENUE, OTTAWA
 Facility Type: Petroleum Products, Wholesale
 Comments 1: FIP1912 - vacant lot - lumber shed, coal sheds (1 sm. 1 XL), open lumber yard
 Comments 2:
 Generator Number:
 Storage Tanks: 2 UST - gasoline
 HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1948, M.1950, M.1956, M.1960, M.1970, M.1980;
 FIP1901-112-825,vol2; FIP1912-112-825,vol2; FIP1948-320-825; FIP1956-320-825
 HL References 2:
 HL References 3:

NAICS	SIC
444110	563
416310	563
454310	511
419120	511
493190	479
412110	511
324121	369
416340	563
444190	563
493130	479
416320	563
444120	563
493120	479

Company Name	Year of Operation
F.W. Argue Ltd.	c. 1930-1960
Spark's Estate North Yard - J.R. Booth	c. 1901-1912



CITY OF OTTAWA
 HLUI ID: __679GYK
 AREA (Square Metres): 2250.812

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:23:02

Study Year 1998 PIN 041070154 Multi-NAIC Y Multiple Activities Y

Activity ID: 7595 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 5546
 Related PINS: 041070154
 Name: LUMBER YARD
 Address: 161 SPRUCE STREET, OTTAWA
 Facility Type: Lumber and Building Materials, Wholesale
 Comments 1: M. 1956, M. 1963 Located at #236 Bank St as coal, coke and fuel oil company
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: M.1922, M.1949, M.1956, M.1963; FIP1901-113-826,Vol2; FIP1912-113-826,Vol2; FIP1922-113-826,Vol2; FIP1948-116-826; FIP1953-116-1-826
 HL References 2:
 HL References 3:

NAICS	SIC
321112	251
321920	251
493130	479
444110	563
321919	251
444190	563
416310	563
493120	479
321111	251
416340	563
444120	563
493190	479
416320	563

Company Name Year of Operation
 Lumber Yard c. 1912



CITY OF OTTAWA
 HLUI ID: __679F9A
 AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 10354 **Multiple PINS:** N

PIN Certainty: 1 **Previous Activity ID(s) :**

Related PINS: 041070153

Name: PHILIPS ELECTRONICS LIMITED

Address: 145 SPRUCE STREET, OTTAWA

Facility Type: Appliance, Television, Radio and Stereo Stores

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS	SIC
443110	0

Company Name

PHILIPS ELECTRONICS LIMITED

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __679F9A

AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 1050 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) :
 Related PINS: 041070153
 Name: ALEXANDER BATTERY CORPORATION
 Address: 145 SPRUCE STREET, OTTAWA
 Facility Type: Electrical and Electronic Machinery, Equipment and Supplies, Wholesale
 Comments 1: Unit A
 Comments 2:
 Generator Number: ON1314600
 Storage Tanks:
 HL References 1:
 HL References 2:
 HL References 3: 2000 PID

NAICS	SIC
416110	0
417320	0
811210	0
335910	0

Company Name	Year of Operation
ALEXANDER BATTERY CORPORATION	c. 2000
ALEXANDER BATTERY CORPORATION	c. 2005
ALEXANDER BATTERY CORPORATION	c. 2001



CITY OF OTTAWA

HLUI ID: __679F9A

AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 12144 Multiple PINS: N

PIN Certainty: 2 Previous Activity ID(s) :

Related PINS: 041070153

Name: ROGERS HOME HEATING INC.

Address: 160 ELM STREET,

Facility Type: Highway and Heavy Construction

Comments 1: NO PIN FOR 160 - PIN IS FOR 164

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
238910	0
238210	0
238220	0

Company Name

Year of Operation

ROGERS HOME HEATING INC.

c. 2001

ROGERS HOME HEATING INC.

c. 2005



CITY OF OTTAWA

HLUI ID: __679F9A

AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 13350 Multiple PINS: N
 PIN Certainty: 2 Previous Activity ID(s) : 4211
 Related PINS: 041070153

Name: THE ALEXANDER BATTERY CORP
 Address: 145 SPRUCE STREET, OTTAWA
 Facility Type: Other Electrical Products Industries

Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: SC98

HL References 2:

HL References 3:

NAICS	SIC
416120	574
811210	574
416110	574
335910	339
417320	574
417310	574
443120	574

Company Name

The Alexander Battery Corp

Year of Operation

c. 1998



CITY OF OTTAWA

HLUI ID: __679F9A

AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 14243 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 1402
 Related PINS: 041070153
 Name: UNION ENGRAVING CO. LIMITED
 Address: 145 SPRUCE STREET, OTTAWA
 Facility Type: Commercial Printing Industries
 Comments 1:
 Comments 2:
 Generator Number: ON1584800
 Storage Tanks:
 HL References 1: M.1960, M.1970, M.1980; PID1994
 HL References 2:
 HL References 3: 2000 PID

NAICS	SIC
323114	281
331490	392
323114	0
323116	281
448310	656
812921	282
323115	0
323120	282
323115	281
323119	281

Company Name	Year of Operation
UNION ENGRAVING CO. LIMITED	c. 2000
UNION ENGRAVING CO. LIMITED	c. 2001
Union Engraving Co. Ltd.	c. 1980-1994



CITY OF OTTAWA

HLUI ID: __679F9A

AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:23:46

Study Year
1998

PIN
041070153

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 3825 Multiple PINS: N
PIN Certainty: 1 Previous Activity ID(s) : 1089, 2186
Related PINS: 041070153

Name: MANSFIELD AND RODNEY PRINTERS CO. LIMITED
Address: 164 ELM STREET, OTTAWA
Facility Type: Commercial Printing Industries

Comments 1:

Comments 2:

Generator Number: ON1787400

Storage Tanks:

HL References 1: M.1900, M.1910, M.1920, M1921, M.1930, M.1940, M.1949, M.1950, M.1956, M.1963, M.1960, M.1970, M.1980;
FIP1901-113-826,vol2; FIP1912-113-826,vol2, FIP1922-113-826,vol2, FIP1948-116-826; FIP1963-116-1-826;
SC98; PID994.

HL References 2:

HL References 3: 2000 PID

NAICS	SIC
323115	281
323116	0
323116	281
323119	0
322230	279
323119	281
325999	279
323114	0
323120	282
323114	281
812921	282

Company Name

Year of Operation

UNION ENGRAVING & PRINTING LIMITED	c. 2005
MANSFIELD AND RODNEY PRINTERS CO. LIMITED	c. 2000
MANSFIELD AND RODNEY PRINTERS CO. LIMITED	c. 2001
Mansfield and Rodney Printers Co. Ltd.	c. 1980-1998
Crain Printers Ltd.	c. 1912-1940



CITY OF OTTAWA
 HLUI ID: __679F9A
 AREA (Square Metres): 3150.021

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:23:46

Study Year
 1998

PIN
 041070153

Multi-NAIC
 Y

Multiple Activities
 Y

Activity ID: 619 Multiple PINS: N

PIN Certainty: 2 Previous Activity ID(s) :

Related PINS: 041070153

Name: ACTION PLUMBING & HEATING
 Address: 160 ELM STREET,
 Facility Type: Highway and Heavy Construction
 Comments 1: NO PIN FOR 160 - PIN IS FOR 164
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2005 Select Phone

NAICS	SIC
238210	0
238220	0
238910	0

Company Name

Year of Operation

ACTION PLUMBING & HEATING

c. 2005



CITY OF OTTAWA
 HLUI ID: __679F9A

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:23:46

AREA (Square Metres): 3150.021

Study Year: 1998 PIN: 041070153 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 801 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 1459
 Related PINS: 041070153
 Name: AMERICAN CAN OF CANADA LIMITED
 Address: 145 SPRUCE STREET, OTTAWA
 Facility Type: Stamped, Pressed and Coated Metal Products Industries
 Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1900- M.1971, S.1958, S.1961, S.1964, S.1965, FIP1901-113-826,Vol2; FIP1912-113-826,Vol2; FIP1922-113-826,Vol2; FIP1948-116-826; FIP1963-116-1-826.

HL References 2:

HL References 3:

NAICS	SIC
339910	304
332439	304
332210	304
332431	304
332720	304
332118	304

Company Name

Year of Operation

American Can of Canada Ltd.

c. 1971

Sun Tube Corp. of Canada Ltd.

c. 1948-1965



CITY OF OTTAWA

HLUI ID: __679AGK

AREA (Square Metres): 2260.349

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:26:52

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 13514 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) : 105

Related PINS: 041070123

Name: T+E FOOD PRODUCTS
 Address: 158 SPRUCE STREET, OTTAWA
 Facility Type: Fruit and Vegetable Industries

Comments 1:
Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980

HL References 2:

HL References 3:

NAICS	SIC
311990	103
311211	103
311420	103
311410	103
312110	103

Company Name	Year of Operation
T+E Food Products	c. 1980



CITY OF OTTAWA

HLUI ID: __679AGK

AREA (Square Metres): 2260.349

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:26:52

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 14289 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 892
 Related PINS: 041070123

Name: UNIVERSAL CONFECTIONARY LIMITED
 Address: 158 SPRUCE STREET, OTTAWA
 Facility Type: Sugar and Sugar Confectionery Industries

Comments 1:
 Comments 2:
 Generator Number:

Storage Tanks:
 HL References 1: S.1958, S.1961, S.1964-65, M.1958
 HL References 2:
 HL References 3:

NAICS	SIC
311330	108
311340	108
311320	108
311310	108

Company Name	Year of Operation
Universal Confectionary Ltd	c. 1958-1965



CITY OF OTTAWA
 HLUI ID: __679AGK

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:26:52

AREA (Square Metres): 2260.349

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 15090 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 1898

Related PINS: 041070123

Name: National Drug and Chemical Co. of Canada Ltd.
 Address: 158 SPRUCE ST, OTTAWA
 Facility Type: Drug and Chemical Co.

Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980

HL References 2:

HL References 3:

NAICS	SIC
0	374

Company Name	Year of Operation
National Drug and Chemical Co. of Canada Ltd.	c. 1970



CITY OF OTTAWA
HLUI ID: __679AGK

Report: RPTC_OT_DEV0122
Run On: 17 Jan 2014 at: 15:26:52

AREA (Square Metres): 2260.349

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 4437 Multiple PINS: N

PIN Certainty: 2 Previous Activity ID(s) :

Related PINS: 156850000

Name: DOMICILE DEVELOPMENTS

Address: 148 SPRUCE STREET, OTTAWA

Facility Type: Residential Building and Development

Comments 1: NO PIN FOR 148 - PIN IS FOR 152

Comments 2:

Generator Number: ON2357665

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2003 PID

NAICS	SIC
236110	0

Company Name

Year of Operation

DOMICILE DEVELOPMENTS

c. 2003



CITY OF OTTAWA
 HLUI ID: __679AGK

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:26:52

AREA (Square Metres): 2260.349

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 8804 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 5674
 Related PINS: 041070123
 Name: MONTREAL-OTTAWA EXPRESS LIMITED
 Address: 148 SPRUCE STREET, OTTAWA
 Facility Type: Public Passenger Transit Systems Industries
 Comments 1: Transportation shed on property
 Comments 2:
 Generator Number:
 Storage Tanks: One Underground Storage Tank
 HL References 1: M.1920, M.1949, M.1956, M.1963; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2; FIP1922-119-828,Vol2;
 FIP1948-116-828; FIP1963-116-1-703
 HL References 2:
 HL References 3:

NAICS	SIC
485210	457
487110	457
488990	457
485510	457
485110	457
485990	457
485410	457

Company Name	Year of Operation
Montreal-Ottawa Express Ltd,	



CITY OF OTTAWA

HLUI ID: __679AGK

AREA (Square Metres): 2260.349

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:26:52

Study Year	PIN	Multi-NAIC	Multiple Activities
1998	041070123	Y	Y
2005	156850000	N	N

Activity ID: 9971 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 5675
 Related PINS: 041070123

Name: OTTAWA STAIRWORKS
 Address: 148 SPRUCE STREET, OTTAWA
 Facility Type: Sash, Door and Other Millwork Industries
 Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1920, M.1949, M.1956, M.1963; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2; FIP1922-119-828,Vol2;
 FIP1948-116-828; FIP1963-116-1-703

HL References 2:

HL References 3:

NAICS	SIC
321215	254
337110	254
321992	254
321911	254

Company Name	Year of Operation
Ottawa Stairworks	c. 1912



CITY OF OTTAWA
 HLUI ID: __670H37
 AREA (Square Metres): 690.658

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:28:15

Study Year
1998

PIN
041070122

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 14550 **Multiple PINS:** Y
PIN Certainty: 1 **Previous Activity ID(s) :** 1744
Related PINS: 041070120
Name: VALLEY CHEMICALS
Address: SOMERSET STREET WEST, OTTAWA
Facility Type: Paint and Varnish Industry
Comments 1: Chemical factory & production of paints, lacquers, asphalts, cleaning compounds, nailing and stapling machines and fasteners.
Comments 2: 963-965
Generator Number:
Storage Tanks:
HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950, M.1958, M.1960, M.1961, M.1964, M.1970, M.1980, S.1970/71, S.1958, S.1961, S.1964, S.1965
HL References 2:
HL References 3:

NAICS	SIC
325510	375
334110	336

Company Name	Year of Operation
Ottawa Valley Chemicals	c. 1950-1998



CITY OF OTTAWA
 HLUI ID: __670H37
 AREA (Square Metres): 690.658

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:28:15

Study Year
 1998

PIN
 041070122

Multi-NAIC
 Y

Multiple Activities
 Y

Activity ID: 6309 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 1758
 Related PINS: 041070121

Name: GENESOVE PRESS LIMITED
 Address: 969 SOMERSET STREET WEST, OTTAWA
 Facility Type: Combined Publishing and Printing Industries

Comments 1:
 Comments 2:

Generator Number:
 Storage Tanks:

HL References 1: M.1920, M.1949, M.1960, M.1963, M.1970, M.1980; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2;
 FIP1922-119-828,Vol2; FIP1948-116-828; FIP1963-116-1-703

HL References 2:
 HL References 3:

NAICS	SIC
323116	281
812921	282
512230	284
511120	284
511110	284
323115	281
323119	281
511130	284
323114	281
323120	282

Company Name
 Genesove Press Ltd.

Year of Operation
 c. 1960-1963



CITY OF OTTAWA

HLUI ID: __670H37

AREA (Square Metres): 690.658

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:28:15

Study Year
1998

PIN
041070122

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 9085 Multiple PINS: N

PIN Certainty: 1 Previous Activity ID(s) :

Related PINS: 041070122

Name: MUSCA-WINE PRESSING &

Address: 969 SOMERSET STREET, OTTAWA

Facility Type: Distillery Products Industry

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1:

HL References 2:

HL References 3: 2001 Employment Survey

NAICS SIC

312130 0

Company Name

MUSCA-WINE PRESSING &

Year of Operation

c. 2001



CITY OF OTTAWA

HLUI ID: __670H24

AREA (Square Metres): 498.516

Report: RPTC_OT_DEV0122

Run On: 17 Jan 2014 at: 15:28:57

Study Year
1998

PIN
041070121

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 14550

Multiple PINS: Y

PIN Certainty: 1

Previous Activity ID(s) : 1744

Related PINS: 041070120

Name: VALLEY CHEMICALS

Address: SOMERSET STREET WEST, OTTAWA

Facility Type: Paint and Varnish Industry

Comments 1: Chemical factory & production of paints, lacquers, asphalts, cleaning compounds, nailing and stapling machines and fasteners.

Comments 2: 963-965

Generator Number:

Storage Tanks:

HL References 1: M.1900, M.1910, M.1920, M.1930, M.1940, M.1950, M.1958, M.1960, M.1961, M.1964, M.1970, M.1980, S.1970/71, S.1958, S.1961, S.1964, S.1965

HL References 2:

HL References 3:

NAICS	SIC
325510	375
334110	336

Company Name

Ottawa Valley Chemicals

Year of Operation

c. 1950-1998



CITY OF OTTAWA
 HLUI ID: __670H24
 AREA (Square Metres): 498.516

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:28:57

Study Year: 1998 PIN: 041070121 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 6309 Multiple PINS: Y
 PIN Certainty: 2 Previous Activity ID(s) : 1758
 Related PINS: 041070121

Name: GENESOVE PRESS LIMITED
 Address: 969 SOMERSET STREET WEST, OTTAWA
 Facility Type: Combined Publishing and Printing Industries

Comments 1:
 Comments 2:
 Generator Number:

Storage Tanks:

HL References 1: M.1920, M.1949, M.1960, M.1963, M.1970, M.1980; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2; FIP1922-119-828,Vol2; FIP1948-116-828; FIP1963-116-1-703

HL References 2:

HL References 3:

NAICS	SIC
323116	281
812921	282
512230	284
511120	284
511110	284
323115	281
323119	281
511130	284
323114	281
323120	282

Company Name

Genesove Press Ltd.

Year of Operation

c. 1960-1963



CITY OF OTTAWA
 HLUI ID: __670HAU
 AREA (Square Metres): 706.376

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:33:07

Study Year: 1998 PIN: 041070123 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 13514 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s): 105
 Related PINS: 041070123
 Name: T+E FOOD PRODUCTS
 Address: 158 SPRUCE STREET, OTTAWA
 Facility Type: Fruit and Vegetable Industries
 Comments 1:
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: M.1960, M.1970, M.1980
 HL References 2:
 HL References 3:

NAICS	SIC
311990	103
311211	103
311420	103
311410	103
312110	103

Company Name	Year of Operation
T+E Food Products	c. 1980



CITY OF OTTAWA
 HLUI ID: __670HAU
 AREA (Square Metres): 706.376

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:33:07

Study Year: 1998 PIN: 041070123 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 14289 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 892
 Related PINS: 041070123

Name: UNIVERSAL CONFECTIONARY LIMITED
 Address: 158 SPRUCE STREET, OTTAWA
 Facility Type: Sugar and Sugar Confectionery Industries

Comments 1:
 Comments 2:

Generator Number:

Storage Tanks:

HL References 1: S.1958, S.1961, S.1964-65, M.1958

HL References 2:

HL References 3:

NAICS	SIC
311330	108
311340	108
311320	108
311310	108

Company Name

Universal Confectionary Ltd

Year of Operation

c. 1958-1965



CITY OF OTTAWA
HLUI ID: __670HAU

Report: RPTC_OT_DEV0122
Run On: 17 Jan 2014 at: 15:33:07

AREA (Square Metres): 706.376

Study Year
1998

PIN
041070123

Multi-NAIC
Y

Multiple Activities
Y

Activity ID: 15090 Multiple PINS: N
PIN Certainty: 1 Previous Activity ID(s) : 1898

Related PINS: 041070123

Name: National Drug and Chemical Co. of Canada Ltd.

Address: 158 SPRUCE ST, OTTAWA

Facility Type: Drug and Chemical Co.

Comments 1:

Comments 2:

Generator Number:

Storage Tanks:

HL References 1: M.1960, M.1970, M.1980

HL References 2:

HL References 3:

NAICS SIC
0 374

Company Name

National Drug and Chemical Co. of Canada Ltd.

Year of Operation

c. 1970



CITY OF OTTAWA
 HLUI ID: __670HAU
 AREA (Square Metres): 706.376

Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:33:07

Study Year: 1998 PIN: 041070123 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 8804 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 5674
 Related PINS: 041070123
 Name: MONTREAL-OTTAWA EXPRESS LIMITED
 Address: 148 SPRUCE STREET, OTTAWA
 Facility Type: Public Passenger Transit Systems Industries
 Comments 1: Transportation shed on property
 Comments 2:
 Generator Number:
 Storage Tanks: One Underground Storage Tank
 HL References 1: M.1920, M.1949, M.1956, M.1963; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2; FIP1922-119-828,Vol2; FIP1948-116-828; FIP1963-116-1-703
 HL References 2:
 HL References 3:

NAICS	SIC
485210	457
487110	457
488990	457
485510	457
485110	457
485990	457
485410	457

Company Name	Year of Operation
Montreal-Ottawa Express Ltd,	



CITY OF OTTAWA
 HLUI ID: ___670HAU
 AREA (Square Metres): 706.376

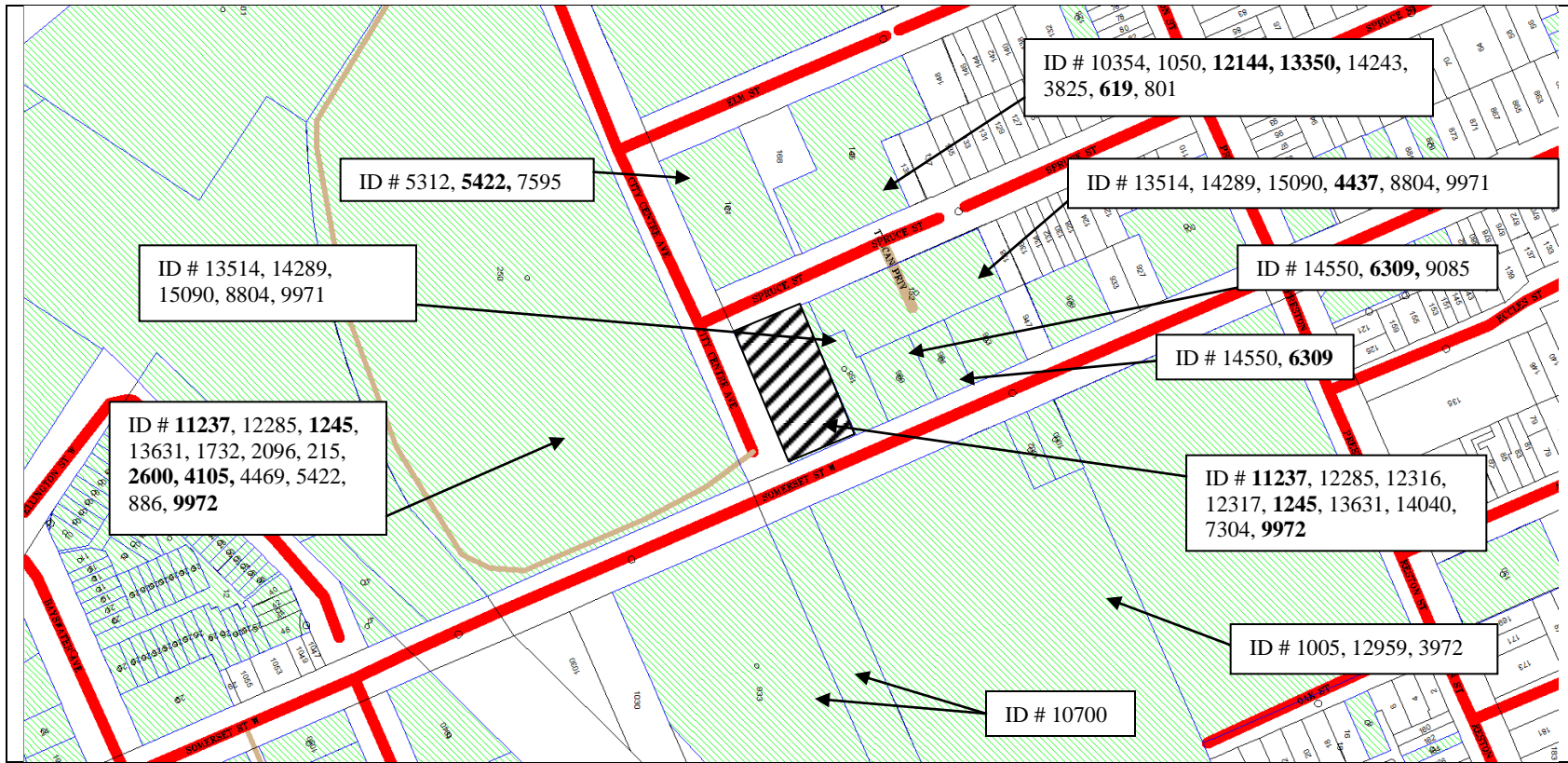
Report: RPTC_OT_DEV0122
 Run On: 17 Jan 2014 at: 15:33:07

Study Year: 1998 PIN: 041070123 Multi-NAIC: Y Multiple Activities: Y

Activity ID: 9971 Multiple PINS: N
 PIN Certainty: 1 Previous Activity ID(s) : 5675
 Related PINS: 041070123
 Name: OTTAWA STAIRWORKS
 Address: 148 SPRUCE STREET, OTTAWA
 Facility Type: Sash, Door and Other Millwork Industries
 Comments 1:
 Comments 2:
 Generator Number:
 Storage Tanks:
 HL References 1: M.1920, M.1949, M.1956, M.1963; FIP1901-119-828,Vol2; FIP1912-119-828,Vol2; FIP1922-119-828,Vol2;
 FIP1948-116-828; FIP1963-116-1-703
 HL References 2:
 HL References 3:

NAICS	SIC
321215	254
337110	254
321992	254
321911	254

Company Name	Year of Operation
Ottawa Stairworks	c. 1912




Scale 1: n/a

989 Somerset Street East
 Ottawa, ON
 File # C10-01-14-0021
 John Bernier



ID# = Activity Identification Number

 = Subject Site

Overview

Daniel Arnott

From: plal@tssa.org on behalf of Public Information Services [publicinformationsservices@tssa.org]
Sent: December-11-13 8:19 AM
To: Daniel Arnott
Subject: Re: Environmental Assessment Information Search Request

Hi Dan:

Thank you for your inquiry.

We have no record in our database of any fuel storage tanks at the subject address (addresses).

For a further search in our archives please submit your request in writing to Public Information Services via e-mail (publicinformationsservices@tssa.org) or through mail along with a fee of \$56.50 (including HST) per location. The fee is payable with credit card (Visa or MasterCard) or with a Cheque made payable to TSSA.

Thank you and have a great day!

Prem
Public Information Services

"Putting Public Safety First"

Technical Standards and Safety Authority
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, ON M8X 2X4

Toll-Free: 1-877-682-8772
Email: publicinformationsservices@tssa.org
Web Site: www.tssa.org

On Tue, Dec 10, 2013 at 4:59 PM, Daniel Arnott <DArnott@patersongroup.ca> wrote:

Good afternoon:

Could you please complete a search of your records for underground/aboveground storage tanks, historical spills, or other incidents/infractions at the following ten (10) properties in the city of Ottawa, Ontario:

250 City Centre Avenue

933 Gladstone Avenue

969 Somerset Street West

989 Somerset Street West

1000 Somerset Street West

1002 Somerset Street West

145 Spruce Street

158 Spruce Street

160 Spruce Street

161 Spruce Street

Thank you very much for your time.

Best,
Dan

Daniel J. Arnott, P.Eng.

patersongroup

154 Colonnade Road

Ottawa, Ontario

K2E 7J5

[\(613\) 226-7381](tel:6132267381)

This electronic message and any attached documents are intended only for the named recipients.
This communication from the Technical Standards and Safety Authority may contain information

that is privileged, confidential or otherwise protected from disclosure and it must not be disclosed, copied, forwarded or distributed without authorization. If you have received this message in error, please notify the sender immediately and delete the original message.



GROUND WATER BRANCH
 15 No 8959
 JUN 27 1963
 APL

UTM | 18 | 443880 | E

| 5 | R | 502840 | N

Elev. | 4 | 01185

WATER WELL RECORD

Basin | 25 | CARLETON

Township, Village, Town or City OTTAWA

Con. — Lot —

Date completed JUNE 20/63
(day month year)

Owner SUN TUBE OF CANADA LTD.
(print in block letters)

Address 105 SPRUCE ST. OTTAWA

Casing and Screen Record

Inside diameter of casing **6"**
 Total length of casing **28'**
 Type of screen **NONE**
 Length of screen
 Depth to top of screen
 Diameter of finished hole **6"**

Pumping Test

Static level **10'**
 Test-pumping rate **30** G.P.M.
 Pumping level **80'**
 Duration of test pumping **2 HRS.**
 Water clear or cloudy at end of test **CLOUDY**
 Recommended pumping rate **30** G.P.M.
 with pump setting of **75'** feet below ground surface

Well Log

Overburden and Bedrock Record

FILL
GRAVEL & BOULDERS
GREY LIMESTONE & SHALE

From ft.

To ft.

Depth(s) at which water(s) found

Kind of water (fresh, salty, sulphur)

0' 10'
10' 25'
25' 80'
30' TO 75' Sulphur

For what purpose(s) is the water to be used?
MANUFACTURING

Is well on upland, in valley, or on hillside? **VALLEY**

Drilling or Boring Firm **J.B. DUFRESNE & CO LTD.**
OTTAWA

Address

Licence Number **I032**

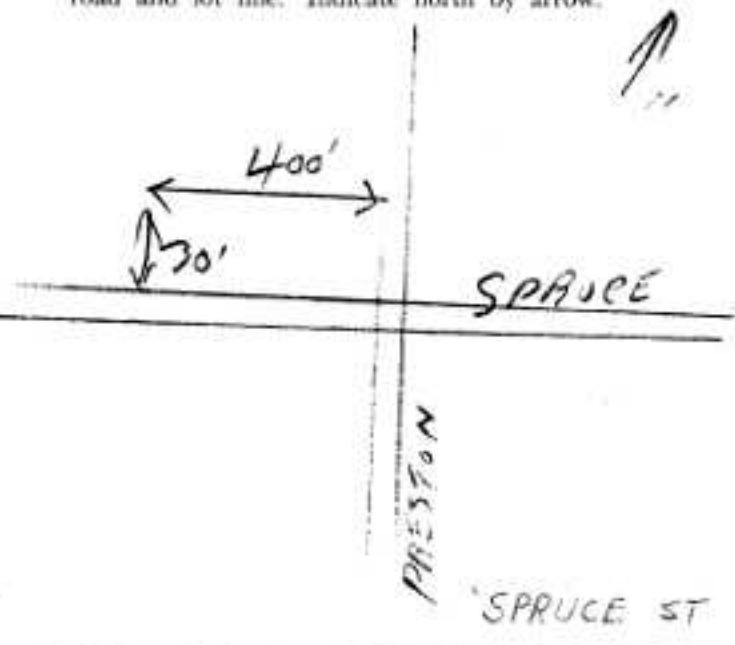
Name of Driller or Borer **R. LANIEL**

Address **HULL**

Date
J.D. Dufresne
 (Signature of Licensed Drilling or Boring Contractor)

Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138

OWRC COPY

SPRUCE ST



Ontario

3165g

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

11 | 1514863 | 15502 |

COUNTY OR DISTRICT Ottawa-Carleton	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Ottawa	CON., BLOCK, TRACT, SURVEY, ETC.	LOT #
OWNER (SURNAME FIRST) PROCESSED POTATOES The Processed Potatoes		ADDRESS 158 Spruce St - Ottawa Ont	DATE COMPLETED DAY 30 MO July YR 75

(21) | 18 | 44400.0 | 50288.0 | 4 | 0.185 | 4 | 25 |

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	sand-gravel			0	23
	limestone			23	200

**OWRC
P-1**

31 | 0023 2811 | 0200 VS |

32 |

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0190	<input type="checkbox"/> FRESH <input checked="" type="checkbox"/> SALTY <input checked="" type="checkbox"/> SULFUR <input type="checkbox"/> MINERAL
19-23	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULFUR <input type="checkbox"/> MINERAL
23-28	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULFUR <input type="checkbox"/> MINERAL
28-33	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY <input type="checkbox"/> SULFUR <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIA. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
06	<input checked="" type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE	3/16	0	0023
19-23	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			20-23
28-33	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE			27-33

SCREEN

SIZE OF OPENING (HOLE NO.)	DIA.	NUMBER	LENGTH	DEPTH TO TOP OF SCREEN

61 PLUGGING & SEALING RECORD

DEPTH SET BY - FEET		MATERIAL AND TYPE	CEMENT OR LEAD PACKER, ETC.
FROM	TO		
10-12	14-12		
18-21	22-23		
28-29	30-32		

71 PUMPING TEST

PUMPING TEST METHOD <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILED	PUMPING RATE 0012 GPM	DURATION OF PUMPING 15-18 MIN
STATIC LEVEL 015 FEET	WATER LEVEL AND OF PUMPING 180 FEET	WATER LEVELS DURING <input type="checkbox"/> PUMPING <input checked="" type="checkbox"/> RECOVERY
IF FLOWING GAGE RATE	PUMP INHALE SET AT	WATER AT END OF TEST
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 190 FEET	RECOMMENDED PUMPING RATE 0010 GPM



FINAL STATUS OF WELL

<input checked="" type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	

WATER USE 04

<input type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input checked="" type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED

METHOD OF DRILLING 4

<input type="checkbox"/> CABLE TOOL	<input type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input checked="" type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	

DRILLER'S REMARKS N.C.C. MAP. Ref. H-10

OFFICE USE ONLY

DATA SOURCE 1	CONTRACTOR 1836	DATE RECEIVED 220875
DATE OF INSPECTION 16/5/79	INSPECTOR Km/G.P.P	

CONTRACTOR

NAME OF WELL CONTRACTOR DUPRESNE-LANIEL DRILLING LTD	AGENCY NUMBER 1836
ADDRESS 15 Corkstown road Ottawa Ont	
NAME OF DRILLER OR BORER Roy	LICENCE NUMBER
CONTRACTOR	SUBMISSION DATE DAY 30 MO July YR 75



Ministry of the Environment

Well Tag No. for Master Well (Per Well Tag No.)
A 074575
A074575

Cluster Well Information for Cluster Well Construction
Regulation 903 Ontario Water Resources Act

Page 1 of 1

Property Owner's Information

First Name: City of Ottawa Last Name: _____
 Mailing Address (Street No./Name, RR): 110 Laurier Avenue
 City/Town/Village: Ottawa Province: ON Postal Code: K1P1J1T1 E-mail Address: _____
 Telephone No. (inc. area code): 61358212424

Cluster Well Information

Address of Well Location (Street Number/Name, RR): 255 City Centre Avenue
 City/Town/Village: Ottawa Province: Ontario Lot: 39 Concession: 1 Township: _____
 County/District/Municipality: _____

Signature of Technician/Contractor: [Signature] Date (YYYY/MM/DD): 2008/12/02

Well #	Zone	Easting	UTM Coordinates Northing	Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From To	Annular Space Sealer Used	Static Water Level (metres)	Abandonment Sealer Used	Comments	Date of Completion (YYYY/MM/DD)
08-1		18443860	5028636	4.9	10	Direct Push	PVC	1.5	1.5	4.9	benchmk			2008/11/12
08-3		18443848	5028631											
08-4		18443841	5028624											
08-5		18443855	5028642											
08-6		18443836	5028648											
08-7		18443859	5028639											
08-8		18443831	5028629											2008/11/13
08-9		18443824	5028637											
08-11		18443851	5028630											

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Deming Estate Drilling Ltd. Business Address (Street Number/Name, RR): 40 Rue Principale Grenville Sur la Rive
 Postal Code: K1P1J1T1 Business Telephone No. (inc. area code): 61358212424 Well Contractor's License No.: 18444 Business E-mail Address: demingexplor@xplor.net.com
 Name of Well Technician (First Name, Last Name): George Deming Well Technicians License No.: 21173 Date Submitted (YYYY/MM/DD): 2008/12/02 Signature of Technician: [Signature]

Date 1st Well in Cluster Constructed	Date Last Well in Cluster Constructed
<u>2008/12/12</u>	<u>2008/12/13</u>

Ministry Use Only	
Date Requested (YYYY/MM/DD)	Date Inspected (YYYY/MM/DD)
<u>2008/12/02</u>	<u>2008/12/02</u>
Audit No.	Remarks
<u>03213</u>	<u>MO2912</u>

Property Owner's Information

First Name: Freedman Holdings Last Name: _____
 Mailing Address (Street No., Name, RR): 1 Nicholas Street Suite 1516 Municipality: Chawasa
 Province: ON Postal Code: K1N 7R87 E-mail Address: _____
 Telephone No. (inc. area code): 613 715 9181 3183

Cluster Well Information

Address of Well Location (Street Number/Name, RR): 250 270.290 City Centre Ave. Lot: _____
 City/Town/Village: Chawasa Province: Ontario Postal Code: _____
 Concession: _____ Township: _____
 GPS Unit Make: Camin Model: Trimble Unit Mode of Operation: Undifferentiated Differentiated, specify _____
 Country/District/Municipality: _____

Well # or Sheet	Zone	Easting	UTM Coordinates Northing	E.U. Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres) From	To	Annular Space Sealer Used	Salt Water Level (metres)	Appurtenant System Used	Comments	Date of Completion (DD/MM/YY)
BH #1		1844381935028612		4.57	20	HSA	PVC	1.5	1.5	4.5	Bentonite	2.3			2009/01/16
BH #2		184438165028542		4.62				1.5	1.5	4.6		2.5			2009/01/16
BH #3		184437935028529		5.11				2.1	2.1	5.1		3.5			2009/01/16
BH #5		1844379095028515		3.58				2.0	2.0	3.5					2009/01/19
BH #12		184438175028799		4.86				1.8	1.8	4.8		3.4			2009/01/20
BH #14		184438105028570		4.95				1.5	1.5	4.5		2.1			2009/01/02
BH #15		184438385028541		4.57				1.5	1.5	4.5		3.0			2009/02/02
BH #16		1844377845028581		4.57				1.5	1.5	4.5		2.7			2009/02/02
BH #17		184437915028498		4.57				3.0	3.0	4.5		3.3			2009/02/02
BH #18		1844380265028505		4.57				3.0	3.0	4.5					2009/02/02

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling Ltd Business Address (Street Number/Name, RR): 410 Rue Principale Grenville Sur-la-Roche Municipality: OC
 Postal Code: J1G 1B6 Business Telephone No. (inc. area code): 819 241 2641 619 Well Contractor's License No.: 1844 Business E-mail Address: downing@shaw.ca
 Name of Well Technician (First Name, Last Name): Prince Downing Well Technician's License No.: 21713 Date Saturated (DD/MM/YY): 2009/05/05 Signature of Technician: George Downing

Consent
 Property Owner's Consent to use cluster form

Use 1st Well in Cluster Construction: 2009/01/16 Date Last Well in Cluster Constructed: 2009/02/02

Ministry Use Only
 Date Received (DD/MM/YY): MAR 9 0 2009 Date Inspected (DD/MM/YY): _____

Audit No.: C05151 2009/01/16 2009/02/02
 Signature: mdk546



SCALE 1 : 2,438



C-1844 M04546 C05751

MAR 30 2009

Property Owner's Information

First Name: City of Ottawa Last Name: _____
 Address of Well Location/Street Number/Name: 110 Laurier Avenue
 City/Town/Village: Ottawa Province: ON Postal Code: K1P 1J1 E-mail Address: _____
 Mailing Address (Street No./Name, R/R): _____
 Municipality: Ottawa Telephone No. (inc. area code): 613 580 2142

Cluster Well Information

Address of Well Location/Street Number/Name: 110 Laurier Avenue
 City/Town/Village: Ottawa Province: Ontario Lot: _____
 Concession: _____ Township: _____
 GPS Unit Make: Garmin Model: Chex County/District/Municipality: _____
 Unit Mode of Operation: Undifferentiated Designated

Well #	UTM Coordinates	Full Depth of Hole (meters)	Well Diameter (cm)	Material of Construction	Casing Material	Casing Length (meters)	Screen Interval (meters) From To	Annular Space Sealed With	Gravel Level (meters)	Accelerated Sealer Used
OW-1	184439425028630	3.6	20	Direct Flush	Steel	1.3	1.3	3.6	Barbed	
OW-2	184438375028626	4.8				1.5	1.5	4.5		
OW-3	184438365028617	4.9				1.5	1.5	4.5		
OW-4	184438315028616	4.9				1.5	1.5	4.5		
OW-5	184438285028606	4.5				1.5	1.5	4.5		
OW-6	184438255028617	4.4				1.4	1.4	4.4		
OW-7	184438215028622	3.7				1.2	1.2	3.7		
OW-8	184438175028638	4.0				1.0	1.0	4.0		
OW-9	184438155028651	4.9				1.5	1.5	4.5		
OW-11	184438255028657	4.8				1.6	1.6	4.4		

Well Contractor and Well Technician Information

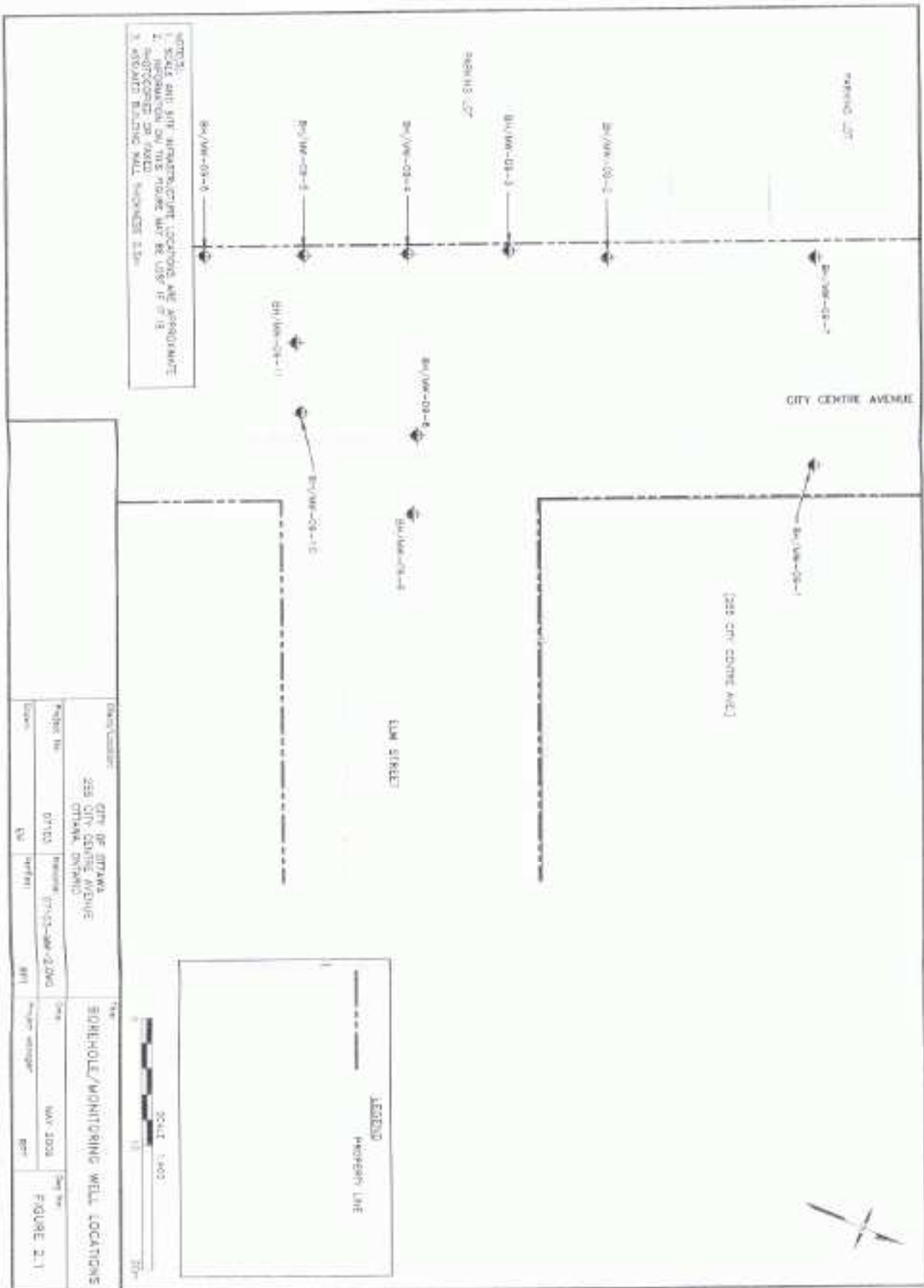
Business Name of Well Contractor: George Downie Estate Drillers Ltd Business Address (Street Number/Name, R/R): 410 Rue Pinevale Municipality: Granville Sun de Range Province: ON
 Postal Code: K1P 1J1 Business Telephone No. (inc. area code): 613 261 469 Well Contractor's Licence No.: 1844 Business E-mail Address: downie@shaw.ca
 Name of Well Technician (First Name, Last Name): George Downie Well Technician's Licence No.: 2173 Date Submitted (yyyy/mm/dd): 2009/05/23 Signature of Technician: George Downie

Consent

Signature of Technician/Contractor: George Downie Date: 2009/05/23

Ministry Use Only

Date Rec'd Well in Cluster Constructed: 2009/05/07 Date Last Well in Cluster Constructed: 2009/05/08
 Date Received (yyyy/mm/dd): JUL 14 2009 Date Inspected (yyyy/mm/dd): _____
 Audit No: C05189 Remarks: MD4482



PROJECT INFORMATION		DATE	
Client	City of Ottawa 255 City Centre Avenue Ottawa, Ontario	Drawn	07/13/09
Project No.	07103	Checked	07/13/09
Drawn	07	Approved	07/13/09
PROJECT DESCRIPTION		DATE	
Borehole/Monitoring Well Locations		Drawn	07/13/09
255 City Centre Avenue		Checked	07/13/09
Ottawa, Ontario		Approved	07/13/09
Project No. 07103		Drawn	07/13/09
Client City of Ottawa		Checked	07/13/09
Project No. 07103		Approved	07/13/09

28750W 4581-C

JUL 14 2009

Master Well Owner's and Land Owner's Information

First Name: City of Ottawa Last Name: _____ E-mail Address: _____
 Mailing Address (Street Number/Name, RR): 110 Laurier Avenue Municipality: Ottawa Province: ON Postal Code: K1P1J1 Telephone No. (inc. area code): 613 580 2424

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): 255 City Centre Avenue Township: _____ Lot: 39 Concession: 1
 County/District/Municipality: Ottawa City/Town/Village: Ottawa Province: Ontario Postal Code: _____
 UTM Coordinates: Zone: _____ Easting: 184438 Northing: 4451028 GPS Unit Make: Magellan Model: Sportrak Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres) From	Depth (Metres) To
Brown Fill		Stones/gravel		0	1.2
Brown Sand				1.2	4.2
Brown Till	-	Sandy clay		4.2	4.9

Hole Details

Depth (Metres) From	Depth (Metres) To	Diameter (Centimetres)
0	4.9	10

Water Use

Public Industrial Not used Other, specify _____
 Domestic Commercial Dewatering
 Livestock Municipal Monitoring
 Irrigation Test Hole Cooling & Air Conditioning

Method of Construction

Cable Tool Air Percussion Digging
 Rotary (Conventional) Diamond Boring
 Rotary (Reverse) Jetting Other, specify HA Direct Push
 Rotary (Air) Driving

Status of Well

Test Hole Abandoned, insufficient supply
 Replacement Well Abandoned, poor water quality
 Dewatering Well Other, specify _____
 Attention (Construction) Abandoned, other, specify _____

No Casing and Screen Used Yes No
Static Water Level Test 2.9 Metres

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fiberglass, concrete, galvanized)	Wall Thickness	Depth (Metres) From	Depth (Metres) To
5.1	PVC	Sched 40	0	1.5

Screen

Galvanized Steel Fiberglass Concrete Plastic
 Outside Diameter (Centimetres): 5.8 Slot No.: 10

Water Details

Water found at Depth: _____ Metres Kind of Water: Gas Fresh Silty Sulphur Minerals
 Water found at Depth: _____ Metres Kind of Water: Gas Fresh Silty Sulphur Minerals
 Water found at Depth: _____ Metres Kind of Water: Gas Fresh Silty Sulphur Minerals

Annular Space/Abandonment Sealing Record

Depth Set at (Metres) From	Depth Set at (Metres) To	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0.5	1.0	Bentonite	22 kgs

Disinfected Yes No if no, provide reason: _____ Date Master Well Completed (yyyy/mm/dd): 2008/11/12

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)
 Total Wells in Cluster: 10 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1
 Total Wells on this Property: unknown

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.
 Check box to confirm detailed map is provided as per Section 11.1 (3)

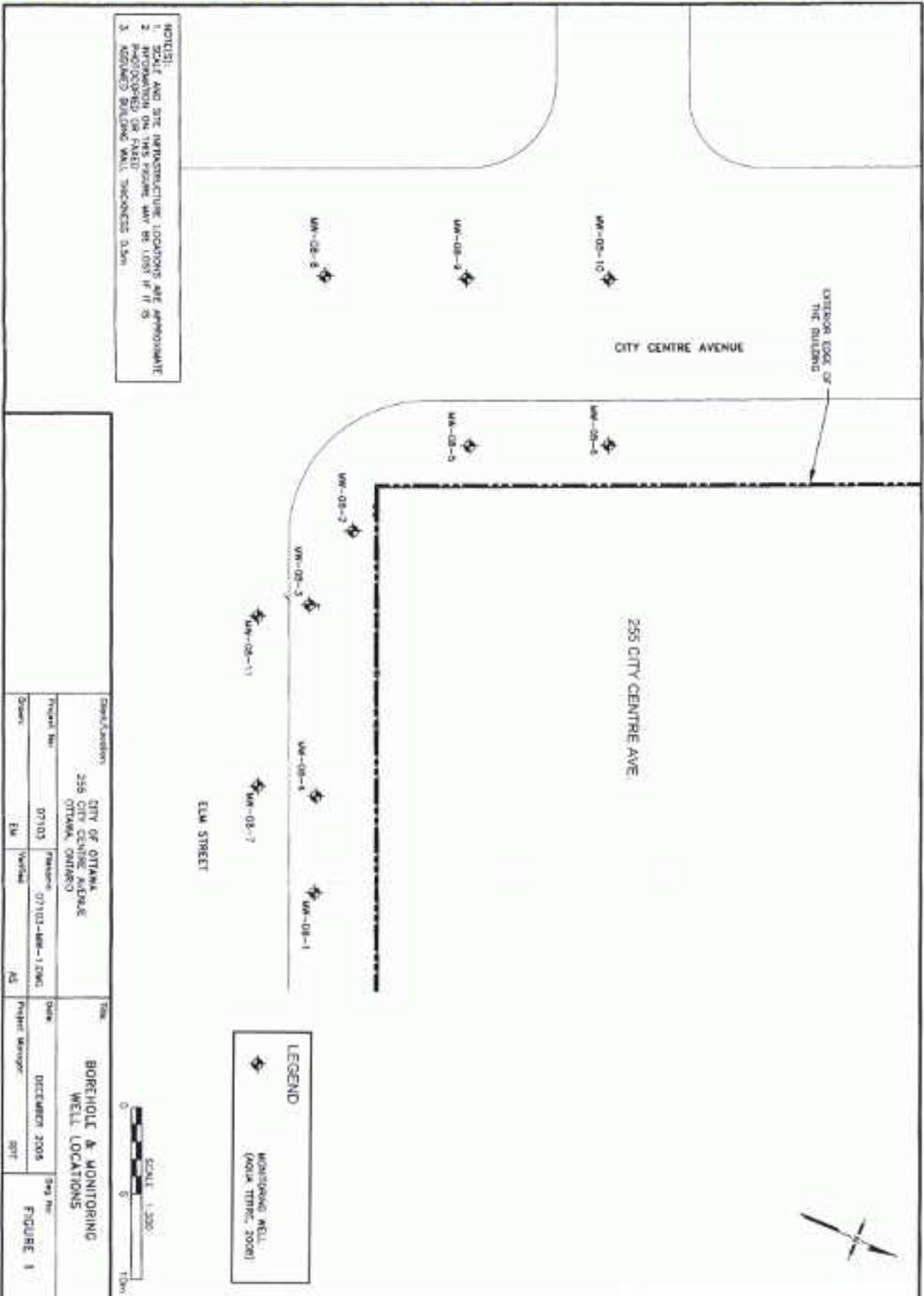
Consent to release additional information concerning the cluster to the Director upon request
 Signature of Technician/Contractor: _____ Date submitted: _____

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling LTD Well Contractor's License No.: 18144
 Business Address (Street No./Name, number, RR): 410 Rue Principale Municipality: Grenville-sur-la-Rouge
 Province: _____ Postal Code: _____ Business E-mail Address: JOV180downing@xplora.net
 Bus Telephone No. (inc. area code): 819 242 6469 Name of Well Technician (Last Name, First Name): Downing, Bruce
 Well Technician's License No.: 2173 Signature of Technician: Bruce Downing Date Submitted (yyyy/mm/dd): 2008/12/02

Well Contractor No.: **M 02917**
 Date Received (yyyy/mm/dd): _____ Date of Inspection (yyyy/mm/dd): _____
 Remarks: DEC 15 2008

C-1844 m02917 003213



NOTES:
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS PROGRAM MAY BE LOST IF IT IS
 PHOTOGRAPHED OR PAVED
 3. ASSUMED BUILDING WALL THICKNESS 0.3M

LEGEND
 MONITORING WELL
 (ASIA TRIFIC, 2008)



Client/Location		Title	
CITY OF OTTAWA 255 CITY CENTRE AVENUE OTTAWA, CANADA		BOREHOLE & MONITORING WELL LOCATIONS	
Project No.	Date	Project Manager	Page No.
07103	DECEMBER 2008		FIGURE 1
Drawn	Checked	AS	SPR
EW			

Master Well Owner's and Land Owner's Information

First Name: City of Ottawa Last Name: _____ E-mail Address: _____
 Mailing Address (Street Number/Name, RR): 110 Laurier Avenue Municipality: Ottawa Province: ON Postal Code: K1P1J1 Telephone No. (inc. area code): 613 580 2424

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): 255 City Centre Avenue Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: _____ Easting: 1844381750129630 Northing: _____ GPS Unit Make: Garmin Model: Etrex Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
	Concrete			0	0.1
	Brown/Black Sand	gravel fill		0.1	1.3
	Brown/Orange/Grey Sand			1.3	4.9
		Flowing sand @ 3.7m			

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	4.9	20

Water Use

Public Industrial Not used Other, specify _____
 Domestic Commercial Deposition Monitoring
 Livestock Municipal Other, specify _____
 Irrigation Test Hole Cooling & Air Conditioning

Method of Construction

Cable Tool Air Percussion Digging
 Rotary (Conventional) Diamond Boring
 Rotary (Reverse) Jetting Other, specify Direct Push
 Rotary (Air) Drilling

Status of Well

Test Hole Abandoned, Insufficient Supply
 Replacement Well Abandoned, Poor Water Quality
 Dewatering Well Other, specify _____
 Alteration (Construction) Abandoned, other, specify _____

No Casing and Screen Used Yes No

Static Water Level Test _____ Metres

Screen

Galvanized Steel Fibreglass Concrete Other

Outside Diameter (Centimetres): 3.8 Slot No.: 10

Water Details

Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals
 Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals
 Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
9.2	Steel	Sched 40	0	1.5

Annular Space/Abandonment Sealing Record

Depth Set at (Metres)	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
0.5 - 1.3	Bentonite	22kgs

Disinfected Yes No. If no, provide reason: _____ Date Master Well Completed (yyyy/mm/dd): 2009/05/07

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster: _____ Please indicate Number of Cluster Well Information Log Sheets Submitted: _____
 Total Wells on this Property: Unknown _____

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request Yes No

Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling Well Contractor's License No.: 1844
 Business Address (Street No./Name, number, RR): 410 Rue Principale Municipality: Greenville Sur la Parg
 Province: QC Postal Code: J0V1B0 Business E-mail Address: downing@hawk.igs.net
 Eye Telephone No. (inc. area code): 819 242 4669 Name of Well Technician (Last Name, First Name): Downing, Bruce
 Well Technician's License No. (Signature of Technician): 2173 Date Submitted (yyyy/mm/dd): 2009/06/23

Audit No.: **M 04482** Well Contractor No.: _____
 Date Received (yyyy/mm/dd): 11/14/2009 Date of Inspection (yyyy/mm/dd): _____
 Remarks: _____

Master Well Owner's and Land Owner's Information

First Name: Freedman Holdings Last Name: _____ E-mail Address: _____
 Mailing Address (Street Number/Name, RR): 1 Nicholas Street Suite 1516 Municipality: Ottawa Province: ON Postal Code: K1N7B7 Telephone No. (inc. area code): 613 781 8383

Location and Construction of the Master Well in the Cluster

Address of Well Location (Street Number/Name, RR): 250, 270, 290 City Centre Ave Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone 18 Easting 443756 Northing 50281682 GPS Unit Make Garmin Model Map74A Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Overburden and Bedrock Materials (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (Metres)	
				From	To
	Grey Asphaltic concrete	crushed stone		0	0.2
	Brown Fill	sand & gravel		0.2	1.67
	Dark Brown	Peat organic matter		1.67	2.29
	Grey/Brown	Silty clay		2.29	3.20
	Grey	glacial till silty sand & gravel		3.20	5.18

Hole Details

Depth (Metres)		Diameter (Centimetres)
From	To	
0	5.18	20

Water Use

Public Industrial Not used Other, specify _____
 Domestic Commercial Dewatering
 Livestock Municipal Monitoring
 Irrigation Test Hole Cooling & Air Conditioning

Method of Construction

Cable Tool Air Percussion Digging
 Rotary (Conventional) Diamond Boring
 Rotary (Reverse) Jelling Other, specify HSA
 Rotary (Air) Driving

Status of Well

Test Hole Abandoned, Insufficient Supply
 Replacement Well Abandoned, Poor Water Quality
 Dewatering Well Other, specify _____
 Alteration (Construction) Abandoned, other, specify _____

No Casing and Screen Used

Open Hole Yes No 2.15 Metres

Screen

Galvanized Steel Fibreglass Concrete PVC
 Outside Diameter (Centimetres): 5.8 Slot No.: 10

Water Details

Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals
 Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals
 Water found at Depth _____ Metres Gas Fresh Salty Sulphur Minerals

Disinfected Yes No. If no, provide reason: Monitoring wells Date Master Well Completed (yyyy/mm/dd): 2009/01/19

Cluster Information (Please also fill out the additional Cluster Well Information for Well Construction for each parcel of land and cluster.)

Total Wells in Cluster: 11 Please indicate Number of Cluster Well Information Log Sheets Submitted: 1
 Total Wells on this Property: unknown

Location of Well Cluster

Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14"). Sketches are not allowed.
 Check box to confirm detailed map is provided as per Section 11.1 (3)

Consent to release additional information concerning the cluster to the Director upon request

Signature of Technician/Contractor: _____ Date (yyyy/mm/dd): _____

Construction Details

Inside Diameter (Centimetres)	Material (steel, plastic, fibreglass, concrete, galvanized)	Wall Thickness	Depth (Metres)	
			From	To
<u>5.1</u>	<u>PVC</u>	<u>Sched 40</u>	<u>0</u>	<u>2.0</u>

Annular Space/Abandonment Sealing Record

Depth Set at (Metres)	Type of Sealant Used (Material and Type)	Volume Used (Cubic Metres)
From	To	
<u>1.3</u>	<u>1.8 Bentonite</u>	<u>22 kgs</u>

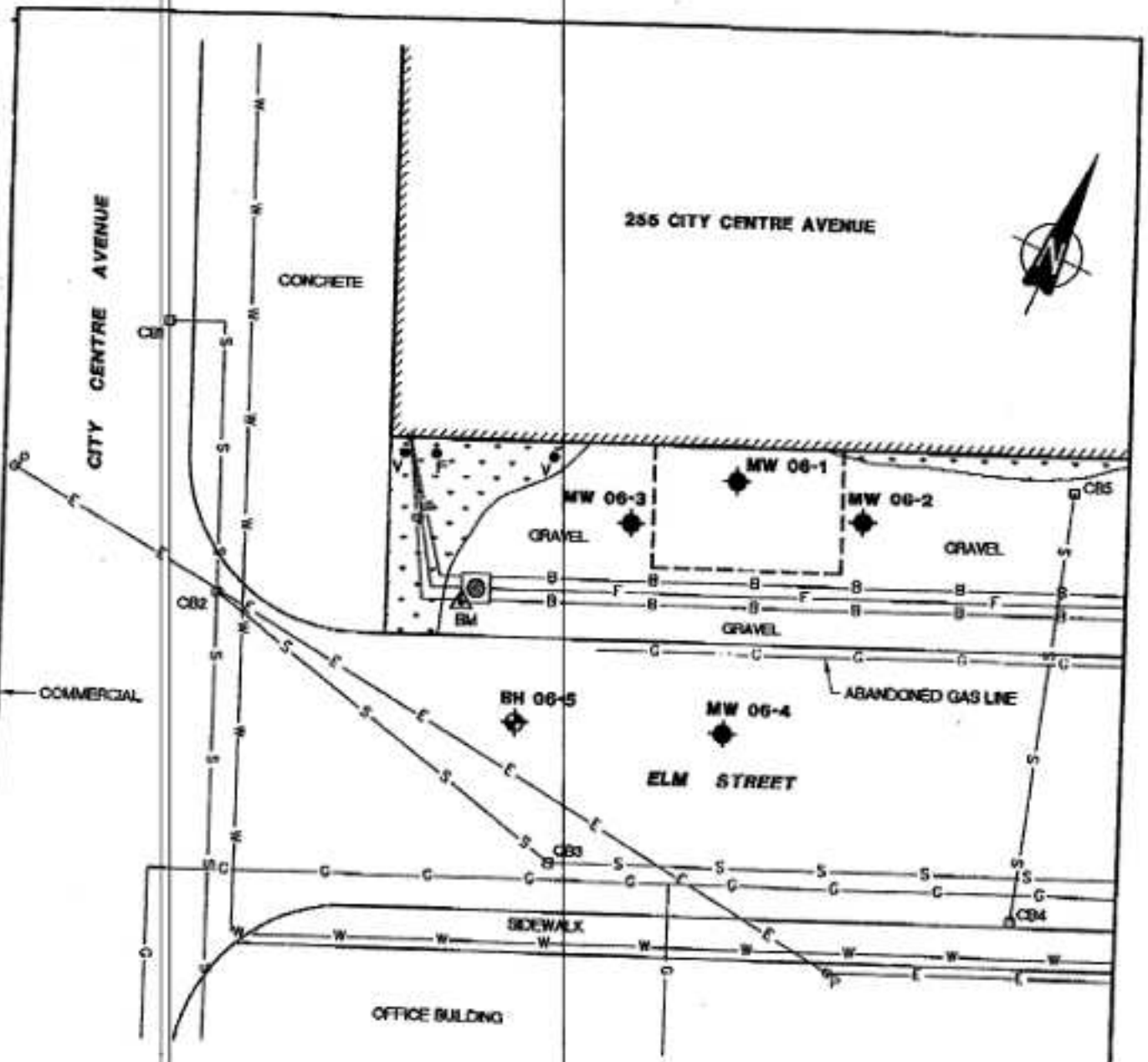
Well Contractor and Well Technician Information

Business Name of Well Contractor: George Downing Estate Drilling Well Contractor's Licence No: 118414
 Business Address (Street No./Name, number, RR): 410 Rue Principale Municipality: Grenville Sur-La-Rouge
 Province: QC Postal Code: J0V1B0 Business E-mail Address: downinghawk.igs.net
 Business Telephone No. (inc. area code): 819 242 6469 Name of Well Technician (Last Name, First Name): Downing, Bruce
 Well Technician's License No.: 12173 Signature of Technician: _____ Date Submitted (yyyy/mm/dd): 09/03/09

M 04546

Date Received (yyyy/mm/dd): MAR 30 2009 Date of Inspection (yyyy/mm/dd): _____

Remarks: _____



LEGEND:

- ◆ BOREHOLE
- ◆ MONITORING WELL
- BM △ BENCHMARK (SOUTHWEST CORNER OF CONCRETE MARKED WITH AN X) ASSUMED EL. - 100.00 m
- o^p POLE
- Fe FULL PIPE
- Ve VENT PIPE
- CB D CATCH BASIN
- BELL MANHOLE
- GRASS
- - - EXCAVATION LIMIT FOR UST REMOVAL
- B— BELL AND FIBRE OPTIC (2 MAIN DUCTS WITH 6 SMALL DUCTS INSIDE)
- F— OVERHEAD ELECTRIC LINE
- G— GAS LINE
- S— SEWER LINE
- W— WATER LINE

CITY OF OTTAWA			
PHASE II ENVIRONMENTAL SITE ASSESSMENT			
ELM STREET RIGHT-OF-WAY (255 CITY CENTRE AVE.)			
SITE PLAN			
Scale:	Job No.:	Dwg. No.:	
1:200	101249101	2	
Date:	Dwn. by:	Appd.:	
06/10/08	GDB	JAY	

T:\work\06\env\p\proj\101249101\PHASE II\ESA\1012491-01-283.dwg PRINTED: Oct 18, 2008

1844

Z 50505

NOV 07 2008

Instructions for Completing Form

- For use in the Province of Ontario only. This document is a permanent legal document. Please retain for future reference.
- All Sections must be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- All metre measurements shall be reported to 1/10th of a metre.
- Please print clearly in blue or black ink only.

Well Owner's Information and Location of Well Information

Ministry Use Only

MUN: _____ CON: _____ LOT: _____

First Name: City of Ottawa Last Name: Real Prop. + Asset Mgmt Dept. Mailing Address (Street Number/Name, RR, Lot, Concession): 110 Laurier West, 5th Floor

County/District/Municipality: Ottawa Township/City/Town/Village: Ottawa Province: Ontario Postal Code: K1P 1J1 Telephone Number (include area code): 613-580-2404

Address of Well Location (County/District/Municipality): _____ Township: _____ Lot: 5 Concession: 13844

RR#/Street Number/Name: 255 City Center Avenue City/Town/Village: Ottawa Site/Compartment/Block/Tract etc.: 8 to 11 Plan 73

GPS Reading: NAD: 83 Zone: 18 Easting: 443849 Northing: 5028645 Unit: Magellan Mode of Operation: Undifferentiated Averaged Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Metres To
Grey	gravel	fill	dry	0	0.5
Brown	Sand with gravel	silt		0.5	3.0
Grey	Sand with gravel	Cobbles	moist	3.0	4.9
Olive	Sandy silt	with gravel	wet	4.9	6.0

4 Monitoring well installations as a cluster as per Min Reg 903 Typical.

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	6.0	20

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
51 mm	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	40	0	1.5
58 mm	<input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	10	1.5	6.0

Screen

Outside diam: 58 mm Slot No: 10

No Casing or Screen Open hole

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	1	1	1	1
Pumping rate - (litres/min)	2	2	2	2
Duration of pumping hrs + min	3	3	3	3
Final water level end of pumping metres	4	4	4	4
Recommended pump type <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	5	5	5	5
Recommended pump depth, metres	10	10	10	10
Recommended pump rate, (litres/min)	15	15	15	15
If flowing give rate - (litres/min)	20	20	20	20
If pumping discontinued, give reason.	25	25	25	25
	30	30	30	30
	40	40	40	40
	50	50	50	50
	60	60	60	60

Plugging and Sealing Record Annular space Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0.10	0.80	Bentonite	20 Kg

Location of Well

In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.

Please see attached site plan

Audit No. **z 50505** Date Well Completed 2006 09 20

Was the well owner's information package delivered? Yes No

Method of Construction

Cable Tool Rotary (air) Diamond Casing Auger

Rotary (conventional) Air percussion Jetting

Rotary (reverse) Boring Driving

Water Use

Domestic Industrial Public Supply Other

Stock Commercial Not used

Irrigation Municipal Cooking & air conditioning

Final Status of Well

Water Supply Recharge well Unfinished Abandoned, (Other)

Observation well Abandoned, insufficient supply Dewatering

Test Hole Abandoned, poor quality Replacement well

Well Contractor/Technician Information

Name of Well Contractor: George Downing Estate Drilling Ltd Well Contractor's Licence No.: 1844

Business Address (street name, number, city etc.): 410 Main St. Grenville Sur La Rouge Qc J0V 1B0

Name of Well Technician (last name, first name): Downing Bruce Well Technician's Licence No.: 12113

Signature of Technician/Contractor: _____ Date Submitted: _____

Ministry Use Only

Date Source: _____ Contractor: **1844**

Date Received: NOV 07 2006 Date of Inspection: _____

Remarks: _____ Well Record Number: _____

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: **CITY OF OTTAWA** Last Name/Organization: _____ E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): **110 LAURIER AVE W.** Municipality: **OTTAWA** Province: **ON** Postal Code: **K1P1J1** Telephone (Area Code): **(613) 560-2400**

Well Location

Address of Well Location (Street Number/Name): **PRESTON ST - SPRUE ST / LAUREL ST.** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: **OTTAWA** City/Town/Village: **OTTAWA** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18** Easting: **444101** Northing: **5028624** Municipal Plan and Sublot Number: _____ Other: _____

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 (mft) From	Depth (mft) To
	Wells abandoned Original constructed by geotechnical engineers			0.00	9.60
				0.00	6.20
				0.00	6.40
				0.00	10.00
				0.00	10.00
				0.00	7.50

Annular Space

Depth Set at (mft) From	Depth Set at (mft) To	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
		above Bentonite grout.	

Results of Well Yield Testing *N/A*

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Static Level			
	1		1	
Pump intake set at (mft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping hrs + min	4		4	
Final water level end of pumping (mft)	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
Recommended pump depth (mft)	25		25	
Recommended pump rate (l/min / GPM)	30		30	
Well production (l/min / GPM)	40		40	
	50		50	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> Other, specify _____	

Construction Record - Casing				Status of Well	
Inside Diameter (mft)	Open Hole OR Material (Galvanized, Fiberglass, Concrete, Plastic, Steel)	Wall Thickness (mft)	Depth (mft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned: Insufficient Supply <input type="checkbox"/> Abandoned: Poor Water Quality <input checked="" type="checkbox"/> Abandoned: other, specify _____ <input type="checkbox"/> Other, specify _____
			From	To	

Construction Record - Screen				
Outside Diameter (mft)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)	
			From	To

Water Details				Hole Diameter	
Water found at Depth (mft): _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (mft) From: _____ To: _____	Diameter (mft) _____	
Water found at Depth (mft): _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested			
Water found at Depth (mft): _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested			

Well Contractor and Well Technician Information

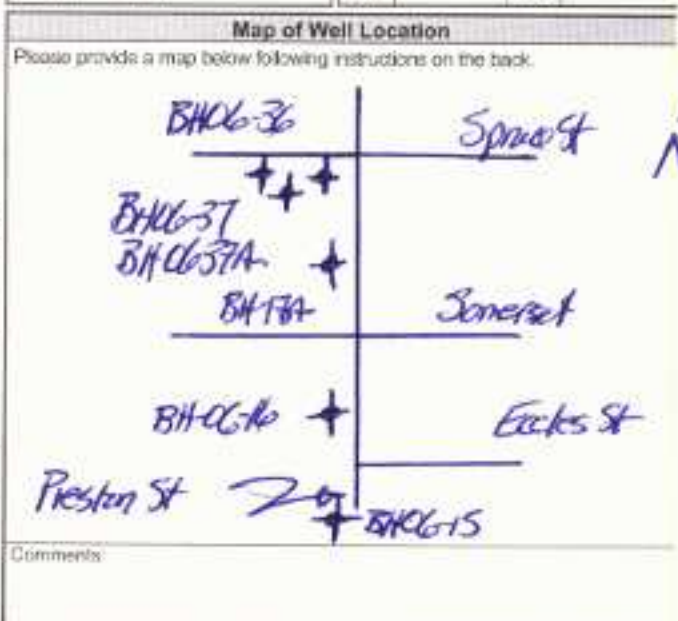
Business Name of Well Contractor: **STANTON DRILLING INC** Well Contractor License No.: **4875**

Business Address (Street Number/Name): **BOX 219** Municipality: **PAKENHAM**

Province: **ON** Postal Code: **K0A2X0** Business E-mail Address: **stanton-drilling@keno.ca**

Telephone No. (Area Code): **(613) 624-5622** Name of Well Technician (Last Name, First Name): **STANTON, PETER**

Well Technician License No.: **0086** Signature of Well Owner and/or Contractor: _____ Date Submitted: **200807**



Comments: _____

Well owner's information package delivered: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: 20080702	Ministry Use Only Auxil No: Z 84229 JUL 29 2008 Received: _____
Date Work Completed: 20080702		



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

S-12069 Well Record
Regulation 903 Ontario Water Resources Act
Page 3 of 3

Measurements recorded in: Metric Imperial

A123897 Tag#: A123897

Well Owner's Information

First Name: _____ Last Name (Organization): **Phoenix Development Corp.** E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): _____ Municipality: _____ Province: _____ Postal Code: _____ Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **801 Albert Ave** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: _____ Easting: **184436025028655** Northing: _____ Municipal Plan and Sublot Number: _____ Other: _____

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/f)	
				From	To
BLK	top soil		soft	0	.31
BRN	fill	stones, sand	dense	.31	2.44
GRY	coarse sand	silt	soft	2.44	4.27

Annular Space

Depth Set at (m/f)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - .31	concrete / flush mount	
.31 - 2.44	benonite	
2.44 - 4.27	6.75 sand	

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/f)	Time (min)	Water Level (m/f)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Static Level			
Pump intake set at (m/f)	1		1	
Pumping rate (l/min / GPM)	2		2	
Duration of pumping _____ hrs + _____ min	3		3	
Final water level end of pumping (m/f)	4		4	
	5		5	
If flowing give rate (l/min / GPM)	10		10	
	15		15	
Recommended pump depth (m/f)	20		20	
	25		25	
Recommended pump rate (l/min / GPM)	30		30	
	40		40	
Well production (l/min / GPM)	50		50	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial Other, specify _____
 Other, specify **Direct Push**

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fiberglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/f)		Status of Well
			From	To	
4.03	PVC	.356	0	2.79	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/f)		Status of Well
			From	To	
4.82	PVC	10	2.79	4.27	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/f)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/f)		Diameter (cm/in)
		From	To	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0	4.27	8.25
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Soil Sampling** Well Contractor's Licence No.: **7241**
 Business Address (Street Number/Name): **147-2 W. Beaver creek** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@stratasoil.com**

Bus. Telephone No. (inc. area code): **9057649304** Name of Well Technician (Last Name, First Name): **McCoy, James**

Well Technician's Licence No.: **3656** Signature of Technician and/or Contractor: _____ Date Submitted: **2012/06/16**

Map of Well Location

Please provide a map below following instructions on the back.

See Map MW1

Well owner's information package delivered: Yes No

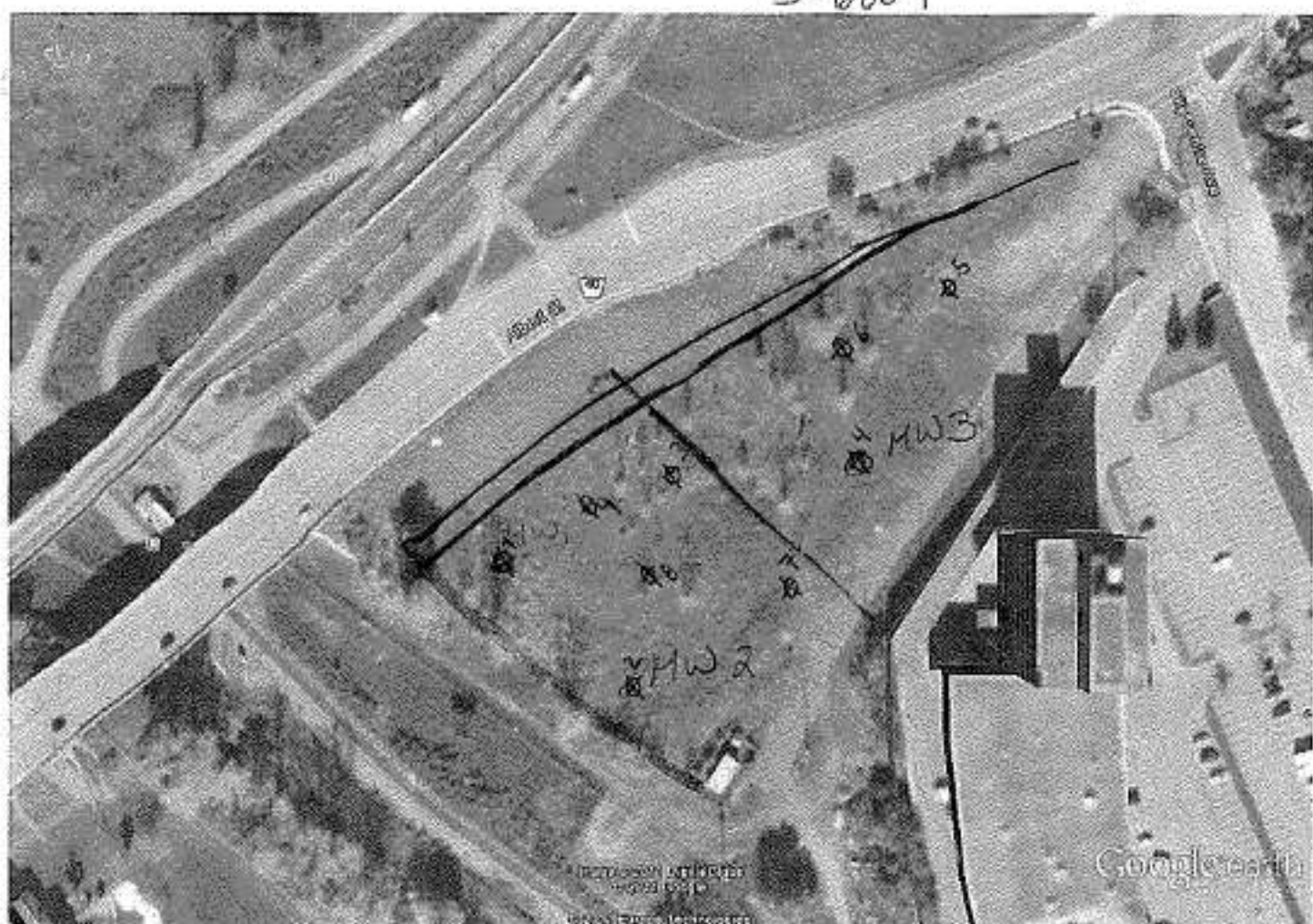
Date Package Delivered: **2012/06/09**

Date Work Completed: _____

Ministry Use Only

Audit No.: **Z134460**

Received: **APR 17 2012**



Google earth



C-7241
APR 17 2012
2134460



Ministry of the Environment

replace Record with Audit number missing

Well Tag No. (Place Sticker and/or Print Below)

A079094

Well Record

Regulation 903 Ontario Water Resources Act

Page ___ of ___

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Phoenix Last Name / Organization: Development Corp E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): _____ Municipality: _____ Province: _____ Postal Code: _____ Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 801 Albert Ave Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: 18 Easting: 443704 Northing: 5028710 Municipal Plan and Sublot Number: _____ Other: _____

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 (mft) From	Depth (mft) To
BLK	Top soil		soft		
BRN	sand	stones	soft, loose		
GRY	Gravel	stones, sand			

Annular Space		
Depth Set at (mft) From	To	Type of Sealant Used (Material and Type)
0	31	Concrete
31	274	Bentonite
274	45	Sand

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify _____	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
If pumping discontinued, give reason:		Static Level			
Pump intake set at (mft)		1		1	
Pumping rate (l/min / GPM)		2		2	
Duration of pumping hrs + min		3		3	
Final water level end of pumping (mft)		4		4	
If flowing give rate (l/min / GPM)		5		5	
Recommended pump depth (mft)		10		10	
Recommended pump rate (l/min / GPM)		15		15	
Well production (l/min / GPM)		20		20	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No		25		25	
		30		30	
		40		40	
		50		50	
		60		60	

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input checked="" type="checkbox"/> Other, specify Direct Push		<input type="checkbox"/> Other, specify _____		

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft) From	To	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
4.0	PVC	3.56	0	3.1	

Construction Record - Screen				Status of Well	
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft) From	To	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
4.8	PVC		3.1	4.5	

Water Details		Hole Diameter	
Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (mft) From	To
		0	4.5
			8.2

Well Contractor and Well Technician Information

Business Name of Well Contractor: 2-147 West Beaver Creek Rd Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 2-147 West Beaver Creek Rd Municipality: Richmond Hill

Province: ON Postal Code: L4B1C6 Business E-mail Address: wrecords@stadesoil.com

Bus. Telephone No. (inc. area code): 905 764 9304 Name of Well Technician (Last Name, First Name): Mandy Mike

Well Technician's Licence No.: 3448 Signature of Technician and/or Contractor: Mandy Mike Date Submitted: 2011/05/11

Map of Well Location

Please provide a map below following instructions on the back.

See Map MW3

Comments:

Well owner's information package delivered: Yes No

Date Package Delivered: 2011/05/11

Date Work Completed: 2011/05/11

Ministry Use Only

Audit No: Z135043

Received: MAY 22 2012



Ministry of the Environment

replaces Record with Audit number missing

Well Tag No. (Place Sticker and/or Print Below)

A123896

Well Record

Regulation 903 Ontario Water Resources Act

Page ___ of ___

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Phoenix, Last Name / Organization: Development Corp, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location: 801 Albert Ave, Township, Lot, Concession, City/Town/Village: Ottawa, Province: Ontario, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number.

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (mft) From, To. Rows include Top Soil, Sand, stones, silt, loose.

Annular Space table with columns: Depth Set at (mft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/m²). Rows include Concrete, Bentonite, Filter sand.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes pumping rate, duration, and flow rate data.

Method of Construction and Well Use checkboxes. Includes Cable Tool, Rotary, Boring, Percussion, Direct Push, Diamond, Jetting, Driving, Digging, Public, Commercial, Domestic, Municipal, Test Hole, Livestock, Irrigation, Industrial, Cooling & Air Conditioning, Not used, Dewatering, Monitoring.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (mft) From, To, Status of Well. Includes PVC casing from 0 to 2.7 mft.

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (mft) From, To, Status of Well. Includes PVC screen from 2.7 to 4.2 mft.

Water Details and Hole Diameter table. Includes water found at depth, kind of water (Fresh/Untested), gas, and hole diameter (Depth, Diameter).

Well Contractor and Well Technician Information. Includes Business Name: Strata Soil Sampling, License No: 72141, Business Address: 2-147 West Beaver Creek, Municipality: Richmond Hill, Province: ON, Postal Code: L4B1C6, Business E-mail Address: wrc@stratasoil.com.

Well Technician's License No: 3448, Signature of Technician and/or Contractor: [Signature], Date Submitted: 20/2011/09.

Map of Well Location. Includes instructions: 'Please provide a map below following instructions on the back.' Handwritten note: 'see map MW2'.

Ministry Use Only. Includes Audit No: 2135044, Date Work Completed: 2011-09-09, Date Package Delivered: [Blank], Well owner's information package delivered: [Blank].

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Equity Last Name / Organization: Realty Group Inc E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 50 Bayswater Ave Municipality: Ottawa Province: ON Postal Code: K1H2E9 Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 270 City Center Ave Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: _____ Easting: 18443839 Northing: 5028526 Municipal Plan and Sublot Number: _____ Other: _____

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/f)
				From To
Brn	Sand	Gobbles	soft, dry	0 2.44
Brn	Sand	Gravel	Hard, saturated	2.44 3.35

Annular Space

Depth Set at (m/f)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 .31	Concrete / Mudmount	
.31 .91	Benseal	
.91 3.35	Sand	

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/f)	Time (min)	Water Level (m/f)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Static Level			
Pump intake set at (m/f)	1		1	
Pumping rate (l/min / GPM)	2		2	
Duration of pumping hrs + min	3		3	
First water level end of pumping (m/f)	4		4	
If flowing gas rate (l/min / GPM)	5		5	
Recommended pump depth (m/f)	10		10	
Recommended pump rate (l/min / GPM)	15		15	
Well production (l/min / GPM)	20		20	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigator Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Other, specify Direct Push

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/f)		Status of Well
			From	To	
5.20	Pvc	3.90	0	1.22	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Abandonment (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/f)	
			From	To
6.00	Pvc	10	1.22	3.35

Water Details

Water found at Depth (m/f)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter	
		Depth (m/f)	Diameter (cm/in)
<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		From To	
Water found at Depth (m/f) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		0 3.35	10.92
Water found at Depth (m/f) <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____			

Well Contractor and Well Technician Information

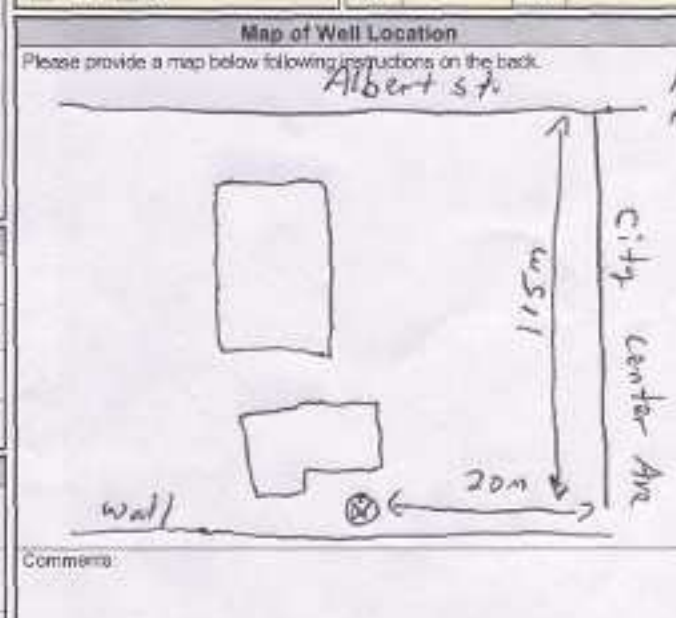
Business Name of Well Contractor: Strate soil sampling Well Contractor's Licence No.: 7 2 4 1

Business Address (Street Number/Name): 147-2 W. Beaver creek Municipality: Richmond Hill

Province: ON Postal Code: L4B1C6 Business E-mail Address: w.records@strate.soil.com

Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beethy Brian

Well Technician's Licence No.: 3 6 1 6 Signature of Technician: _____ Date Submitted: 2011/11/06



Ministry Use Only

Well owner's information package delivered: Yes No

Date Package Delivered: 2011/11/06

Date Work Completed: 2011/11/06

Audit No.: 2140244

DEC 09 2011

Measurements recorded in: Metric Imperial

Well Owner's information

First Name: Equity Last Name / Organization: Realty Group Inc E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 50 Baywater Ave Municipality: Ottawa Province: ON Postal Code: K1Z2E9 Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 270 City Center Ave Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: _____ Easting: 8318443839 Northing: 5028528 Municipal Plan and Sublot Number: _____ Other: _____

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 (mft)
				From To
<u>Brn</u>	<u>Sand</u>	<u>Cobbles</u>	<u>Soft, dry</u>	<u>0 2.44</u>
<u>Brn</u>	<u>Sand</u>	<u>Gravel</u>	<u>Hard saturated</u>	<u>2.44 3.35</u>

Annular Space		
Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
From To		
<u>0 .31</u>	<u>Concrete/Plushmount</u>	
<u>.31 .91</u>	<u>Benseal</u>	
<u>.91 3.35</u>	<u>Sand</u>	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input checked="" type="checkbox"/> Other, specify: <u>Direct Push</u>	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify: _____
<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft)	From	To
<u>5.20</u>	<u>Pu</u>	<u>.390</u>		<u>0</u>	<u>1.22</u>

Water Supply
 Replacement Well
 Test Hole
 Recharge Well
 Dewatering Well
 Observation and/or Monitoring Hole
 Alteration (Construction)
 Abandoned, Insufficient Supply
 Abandoned, Poor Water Quality
 Abandoned, other, specify _____
 Other, specify _____

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)	
			From	To
<u>6.03</u>	<u>Pu</u>	<u>10</u>	<u>1.22</u>	<u>3.35</u>

Water Details		Hole Diameter	
Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (mft)	Diameter (cm/in)
		From To	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	<u>0 3.35</u>	<u>10.92</u>

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata soil sampling Well Contractor's Licence No.: 71241

Business Address (Street Number/Name): 147-2 W. Beaver creek Municipality: Richmond Hill

Province: ON Postal Code: L4B1C6 Business E-mail Address: wrecords@stratasoil.com

Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beath Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: _____ Date Submitted: 2011/1/06

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify: _____	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
If pumping discontinued, give reason: Pump intake set at (mft): Pumping rate (l/min / GPM): Duration of pumping: _____ hrs + _____ min Final water level end of pumping (mft): If flowing give rate (l/min / GPM): Recommended pump depth (mft): Recommended pump rate (l/min / GPM): Well production (l/min / GPM): Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

Map of Well Location

Please provide a map below following instructions on the back.

Comments: _____

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>2011/1/06</u>	Audit No.: <u>2140245</u>
	Date Work Completed	<u>DEC 09 2011</u>

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Equity Last Name / Organization: Realty Group Inc E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 50 Baywater Ave Municipality: Ottawa Province: ON Postal Code: K1Z 2E9 Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 270 City Center Ave Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates Zone: _____ Easting: 8318443858 Northing: 5028529 Municipal Plan and Sublot Number: _____ Other: _____

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/f)	
				From	To
<u>Brn</u>	<u>Sand</u>	<u>S:ll</u>	<u>Soft, dry</u>	<u>0</u>	<u>3.1</u>
<u>Brn</u>	<u>Sand</u>	<u>Gravel</u>	<u>Hard, saturated</u>	<u>3.1</u>	<u>4.27</u>

Annular Space

Depth Set at (m/f)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	
<u>0</u>	<u>Concrete / Flushmount</u>	
<u>.31</u>	<u>Benseal</u>	
<u>.91</u>	<u>Sand</u>	

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason: _____

Time (min)	Draw Down		Recovery	
	Water Level (m/f)	Time (min)	Water Level (m/f)	Time (min)
Static Level				
<u>1</u>		<u>1</u>		
<u>2</u>		<u>2</u>		
<u>3</u>		<u>3</u>		
<u>4</u>		<u>4</u>		
<u>5</u>		<u>5</u>		
<u>10</u>		<u>10</u>		
<u>15</u>		<u>15</u>		
<u>20</u>		<u>20</u>		
<u>25</u>		<u>25</u>		
<u>30</u>		<u>30</u>		
<u>40</u>		<u>40</u>		
<u>50</u>		<u>50</u>		
<u>60</u>		<u>60</u>		

Pump intake set at (m/f): _____

Pumping rate (l/min / GPM): _____

Duration of pumping: _____ hrs + _____ min

Final water level end of pumping (m/f): _____

If flowing give rate (l/min / GPM): _____

Recommended pump depth (m/f): _____

Recommended pump rate (l/min / GPM): _____

Well production (l/min / GPM): _____

Disinfected? Yes No

Method of Construction

Cable Tool Diamond Rotary (Conventional) Rotary (Reverse) Boring Air percussion Other, specify Direct Push

Well Use

Domestic Livestock Irrigation Industrial Other, specify _____

Public Commercial Not used Municipal Dewatering Test Hole Monitoring Cooling & Air Conditioning

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/f)		Status of Well
			From	To	
<u>5.20</u>	<u>PVC</u>	<u>.390</u>	<u>0</u>	<u>1.22</u>	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/f)		Status of Well
			From	To	
<u>6.03</u>	<u>PVC</u>	<u>10</u>	<u>1.22</u>	<u>4.27</u>	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/f)	Kind of Water	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested
<u>0</u>	<u>Gas</u>	<input type="checkbox"/> Other, specify _____
<u>4.27</u>	<u>Gas</u>	<input type="checkbox"/> Other, specify _____

Hole Diameter

Depth (m/f)	Diameter (cm/in)	
From	To	
<u>0</u>	<u>4.27</u>	<u>10.92</u>

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Soil Sampling Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 147-2 W. Beaver Creek Municipality: Richmond Hill

Province: ON Postal Code: L4B1C6 Business E-mail Address: wrecords@stratesoil.com

Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beathy Brian

Well Technician's Licence No.: 3616 Signature of Technician and/or Contractor: _____ Date Submitted: 2011/11/06

Map of Well Location

Please provide a map below following instructions on the back.

Albert St

City Center Ave

270

Well

2m

Comments: _____

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
<input type="checkbox"/> Yes <input type="checkbox"/> No	<u>2011/11/01</u>	Audit No. <u>Z140246</u> DEC 09 2011

Measurements recorded in: Metric Imperial

A 033403

Well Owner's Information

Business Name/Operation: **NCC - Environmental Services** E-mail Address: _____
 Well Constructed by Well Owner
 Mailing Address (Street Number/Name): **202-40 Elgin Street.** Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1C7** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **Cliff St + Wellington St.** Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: **K1R1C5**
 UTM Coordinates: Zone: _____ Easting: **18T4438825028773** Northing: _____
 Municipal Plan and Sublot Number: _____ Other: _____

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/f)	
				From	To
4 MW's Set on Site in Cluster					
				MW 1. 25'5"	3. 37'7"
				2. 11'	4. 24'

Annular Space		
Depth Set at (m/f)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 to 37'7"	3/8" Bentonite chips	

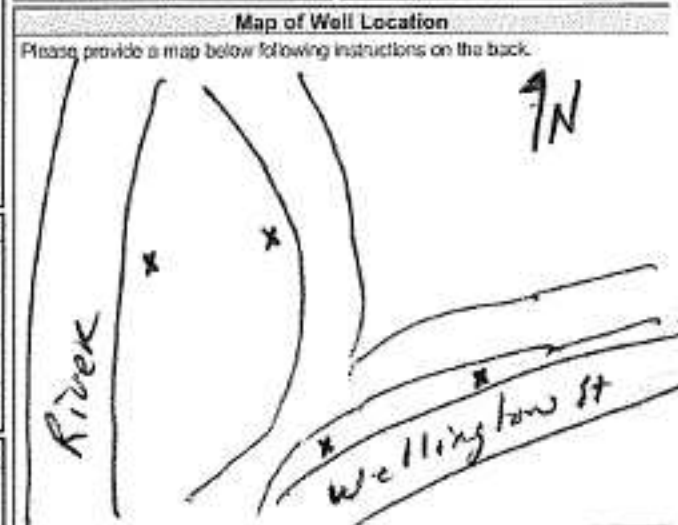
Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (m/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (m/in)	Depth (m/f)	<input type="checkbox"/> Water Supply	<input type="checkbox"/> Replacement Well
			From To		
				<input type="checkbox"/> Test Hole	<input type="checkbox"/> Recharge Well
				<input type="checkbox"/> Dewatering Well	<input type="checkbox"/> Observation and/or Monitoring Hole
				<input type="checkbox"/> Alteration (Construction)	<input type="checkbox"/> Abandoned, Insufficient Supply
				<input type="checkbox"/> Abandoned, Poor Water Quality	<input type="checkbox"/> Abandoned, other, specify
				<input type="checkbox"/> Other, specify	

Water Details		Hole Diameter	
Water found at Depth (m/f): _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Unfiltered <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/f) From To	Diameter (m/in)
Water found at Depth (m/f): 0	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Unfiltered <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0 to 37'7"	6"
Water found at Depth (m/f): _____	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Unfiltered <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify		

Well Contractor and Well Technician Information
 Business Name of Well Contractor: **Can. Envir. Drilling & Contractors Inc.** Well Contractor's License No.: **7323**
 Business Address (Street Number/Name): **4102 Perth Road Inverary** Municipality: **South Frontenac**
 Province: **ON** Postal Code: **K0H1X0** Business E-mail Address: **Jonathan@caneco.com**
 Bus. Telephone No. (inc. area code): **(613) 353-2231** Name of Well Technician (Last Name, First Name): **FILLION JONATHAN**
 Well Technician's License No.: **3315** Signature of Technician and/or Contractor: *[Signature]* Date Submitted: **2012/10/19**

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/f)	Time (min)	Water Level (m/f)
If pumping discontinued, give reason: Pump intake set at (m/f): _____ Pumping rate (l/min / GPM): _____ Duration of pumping: _____ hrs + _____ min Final water level end of pumping (m/f): _____ If flowing give rate (l/min / GPM): _____ Recommended pump depth (m/f): _____ Recommended pump rate (l/min / GPM): _____ Well production (l/min / GPM): _____ Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		



Comments: _____

Well owner's information package delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: _____	Ministry Use Only Audit No.: 2148867
Date Work Completed: 2012/10/19		



Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: _____ Last Name / Organization: Equity Realty Group Inc. E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): 50 Bay Street Ave. Municipality: Ottawa Province: ON Postal Code: K1N 2E9 Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): 270 City Centre Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: Ottawa Province: Ontario Postal Code: _____

UTM Coordinates: Zone: _____ Easting: _____ Northing: _____ Municipal Plan and Sublot Number: _____ Other: _____

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/ft)	
				From	To
Brown	Cobblesand Sand		dry	0	2.74
Brown	Cobbles and Sand		Saturated	2.79	5.49

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 to .31	Concrete / Flushmount	
.31 to	Benseal Sand	

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason:
 State Level: _____

Pump intake set at (m/ft): _____

Pumping rate (l/min / GPM): _____

Duration of pumping: _____ hrs + _____ min

Final water level end of pumping (m/ft): _____

If flowing give rate (l/min / GPM): _____

Recommended pump depth (m/ft): _____

Recommended pump rate (l/min / GPM): _____

Well production (l/min / GPM): _____

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
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

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
5.20	PVC	.390	0	2.44	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
6.03	PVC	10	2.44	5.49	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (m/ft)	Diameter (cm/in)
0		5.49	10.92

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Drilling Group Well Contractor's Licence No.: 7241

Business Address (Street Number/Name): 147-2 W. Beaver Creek Municipality: Richmond Hill

Province: ON Postal Code: L4B 1K6 Business E-mail Address: wrecords@stratasoil.com

Bus. Telephone No. (inc. area code): 9057649304 Name of Well Technician (Last Name, First Name): Beath Brian

Well Technician's Licence No.: 36116 Signature of Technician and/or Contractor: _____ Date Submitted: 2012/1/23

Map of Well Location

Please provide a map below following instructions on the back.

See map

MW1202

City Centre Ave

Spring St

Well owner's information package delivered: Yes No

Date Package Delivered: _____

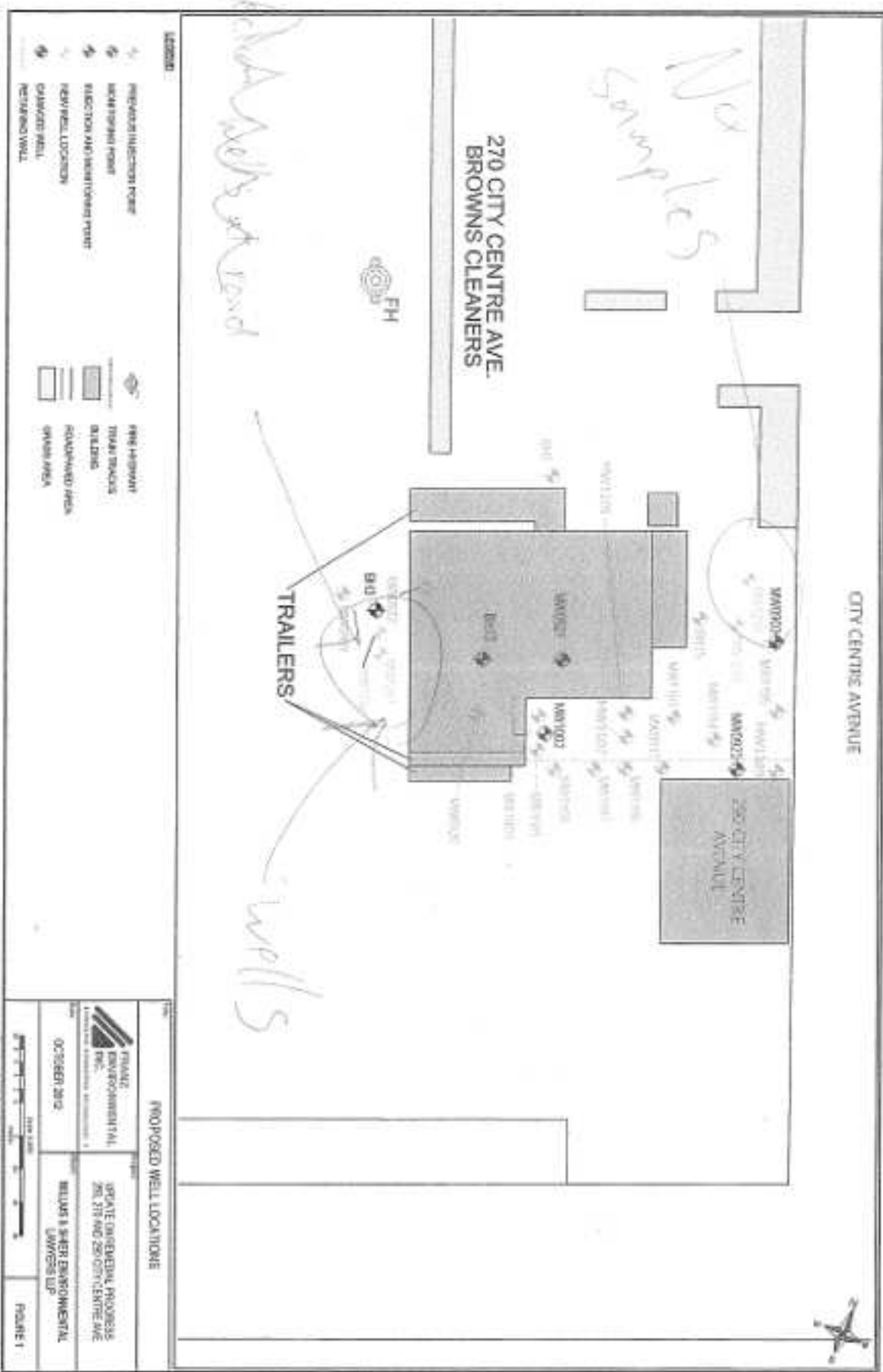
Date Work Completed: 2012/1/21

Ministry Use Only

Audit No.: Z 152963

REC 06 2012

S-13358
TCCLP
on all wells
Go to refusal + 10' screen



Handwritten notes on the left side of the plan, possibly describing well locations or status.

396512 1176-2



Tag#: A141858 A141858

Measurements recorded in: Metric Imperial

Page ___ of ___

Well Owner's Information

First Name: Equity Realty Group Inc. Last Name / Organization: Equity Realty Group Inc. E-mail Address: [blank] Mailing Address: 50 Baywater Ave Municipality: Ottawa Province: ON Postal Code: K1H 2E9 Telephone No.: [blank]

Well Location

Address of Well Location: 270 City Centre St Township: [blank] Lot: [blank] Concession: [blank] County/District/Municipality: Ottawa City/Town/Village: Ottawa Province: Ontario Postal Code: [blank] UTM Coordinates: Zone: NAD 83 Easting: 184433 Northing: 065028520

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (mft) From To. Rows include: Brn Cobbles Course sand Hard dry 0 335; Brn Cobbles Course sand Hard Saturated 335 5.49

Annular Space

Table with 3 columns: Depth Set at (mft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³). Rows include: 0 31 Concrete / flushmount; 31 2.13 Benseal; 2.13 5.49 Sand

Results of Well Yield Testing

Table with 4 columns: After test of well yield, water was: (Clear and sand free, Other), Draw Down (Time, Water Level), Recovery (Time, Water Level), Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected? (Yes/No)

Method of Construction

Well Use

Method of Construction: Rotary (Conventional), Rotary (Reverse), Boring, Air percussion, Other. Well Use: Public, Commercial, Not used, Domestic, Municipal, Cowatering, Test Hole, Monitoring, Liveness, Ingestion, Cooling & Air Conditioning, Industrial, Other.

Construction Record - Casing

Status of Well

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (mft) From To. Status of Well table with checkboxes: Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Alteration (Construction), Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, Other.

Construction Record - Screen

Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (mft) From To. Row: 6.03 PVC 10 2.44 5.49

Water Details

Well Diameter

Water Details table with columns: Water found at Depth (mft), Kind of Water (Fresh, Untasted, Gas, Other). Well Diameter table with columns: Depth (mft) From To, Diameter (cmft). Row: 0 5.49 10.92

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Drilling Group Well Contractor's Licence No.: 72411 Business Address: 147-2 W. Beaver creek Municipality: Richmond Hill Province: ON Postal Code: L4B 1C6 Business E-mail Address: wrecords@strataoil.com Name of Well Technician: Beathy Brian Well Technician's Licence No.: 36116 Date Submitted: 2012/11/23

Map of Well Location

Please provide a map below following instructions on the back. See map MW 1202

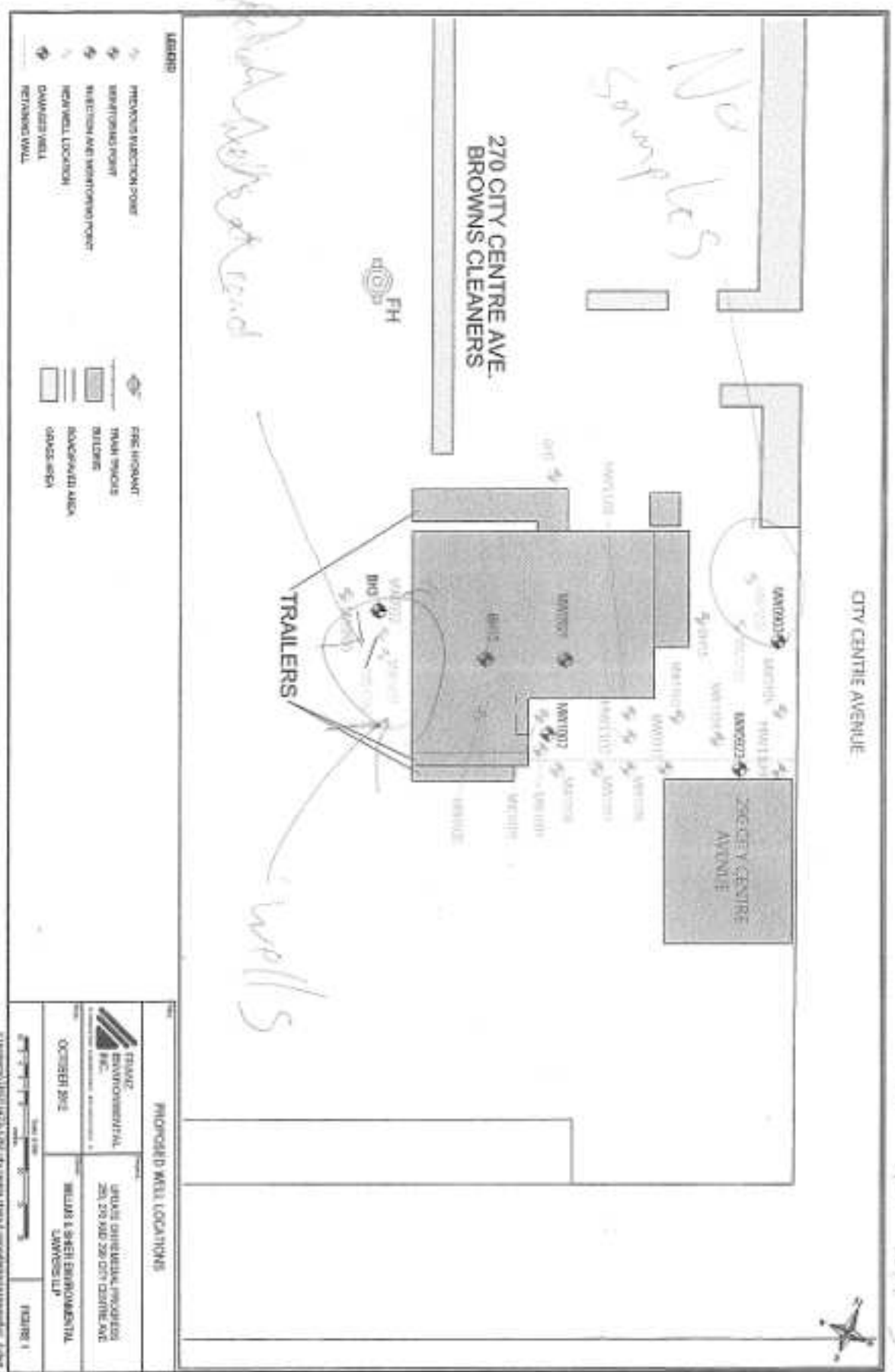
Comments:

Well owner's information package delivered: [checkbox] Yes [checkbox] No Date Package Delivered: 2012/11/21 Date Work Completed: 2012/11/21 Ministry Use Only: Audit No. Z152964

Go to refusal + 10' screen

S-13358
TCEP
on all wells

Handwritten: No samples



6982512 11X2-0

11/12/12



Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Equity realty Group Inc, Last Name / Organization: Equity realty Group Inc, E-mail Address: [blank], Mailing Address: 50 Baywater Ave, Municipality: Ottawa, Province: ON, Postal Code: K1Y 2E9, Telephone No. (inc. area code): [blank]

Well Location

Address of Well Location (Street Number/Name): 270 City Centre Ave, Township: [blank], Lot: [blank], Concession: [blank], City/Town/Village: Ottawa, Province: Ontario, Postal Code: [blank]

UTM Coordinates: Zone: 18, Easting: 443848, Northing: 5028545, Municipal Plan and Sublot Number: [blank]

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (mft) From, To. Rows include: Blk, Brn, Muck, Cobbles, Clay, Course Sand, Soft, dry, Hard, saturated.

Annular Space

Table with 3 columns: Depth Set at (mft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³). Rows include: 0 to 0.31 Concrete / Flushment, 0.31 to 0.91 Benseal, 0.91 to 3.66 Sand.

Results of Well Yield Testing

Table with 4 columns: Time (min), Water Level (mft), Time (min), Water Level (mft). Includes sections for Draw Down and Recovery with various test parameters like pumping rate, duration, and final water level.

Method of Construction: Rotary (Conventional), Rotary (Reverse), Boring, Air percussion, Other, specify. Well Use: Public, Commercial, Not used, Domestic, Municipal, Dewatering, Test Hole, Monitoring, Livestock, Irrigation, Industrial, Cooling & Air Conditioning, Other, specify.

Construction Record - Casing

Table with 4 columns: Inside Diameter (cm), Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel), Wall Thickness (cm), Depth (mft) From, To. Row: 5.20 PVC, .390, 0 to 1.22.

Status of Well

Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Alteration (Construction), Abandoned, insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, specify, Other, specify.

Construction Record - Screen

Table with 4 columns: Outside Diameter (cm), Material (Plastic, Galvanized, Steel), Slot No., Depth (mft) From, To. Row: 6.03 PVC, 10, 1.22 to 3.66.

Map of Well Location

Please provide a map below following instructions on the back. See map MW 204

Water Details

Water found at Depth (mft) Kind of Water: Fresh Untested Gas Other, specify.

Hole Diameter

Table with 3 columns: Depth (mft) From, To, Diameter (cm). Row: 0, [blank], [blank].

Well Contractor and Well Technician Information

Business Name of Well Contractor: Strata Drilling Group, Well Contractor's License No.: 7241, Business Address: 147-2 W. Beaver creek, Municipality: Richmond Hill, Province: ON, Postal Code: L4B 1C6, Business E-mail Address: wrecords@strataoil.com, Bus. Telephone No. (inc. area code): 905-764-9304, Name of Well Technician (Last Name, First Name): Beatty, Brian, Well Technician's License No.: 316116, Signature of Technician and/or Contractor: [Signature], Date Submitted: 2012/11/23.

Comments: [blank], Well owner's information package delivered: Yes No, Date Package Delivered: [blank], Date Work Completed: 2012/11/21, Ministry Use Only: Audit No. 2154422, ESC 06 2012.

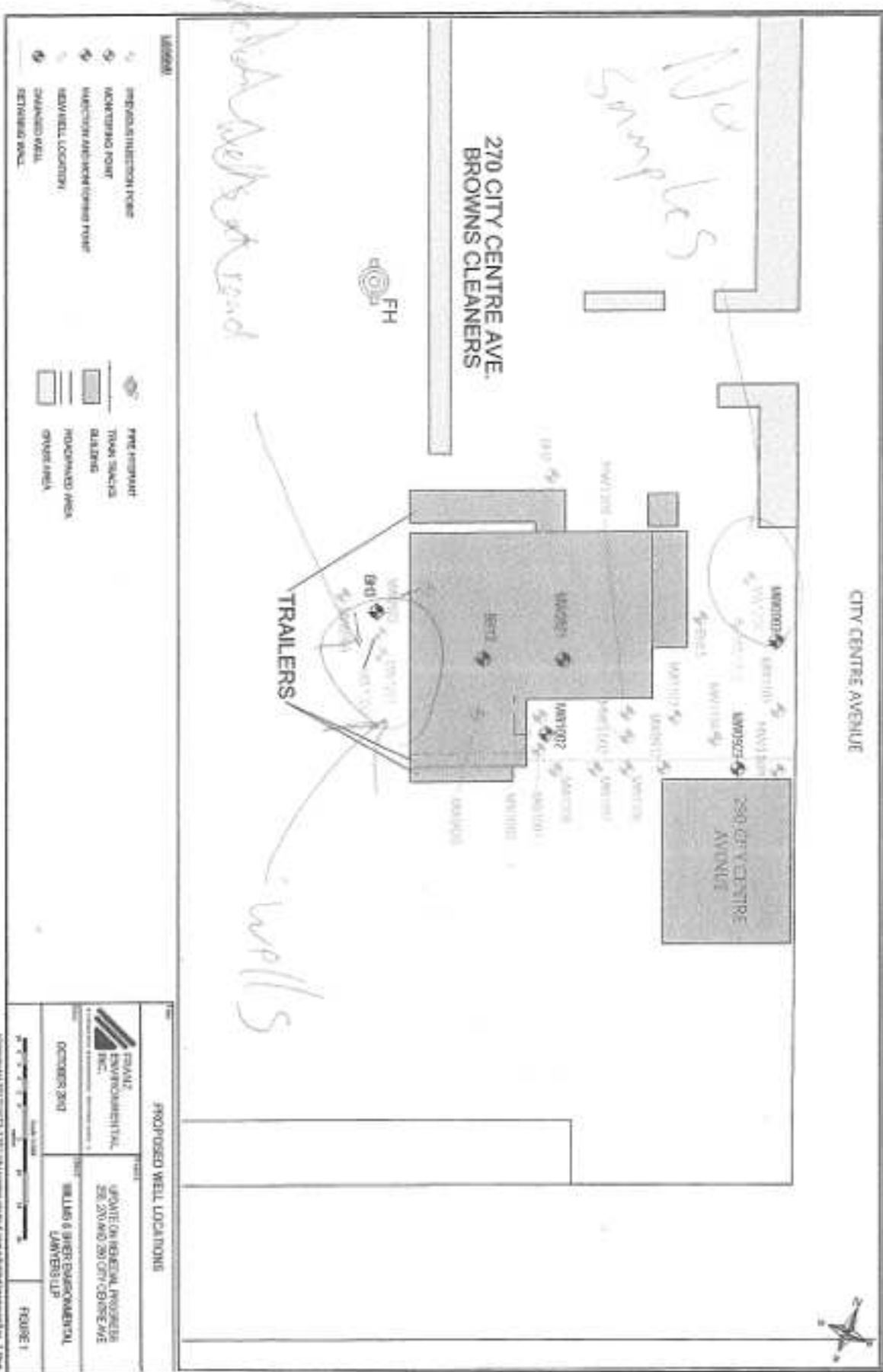
S-13358

TCLP
on all wells

Go to refusal + 10' screen

10' samples

201512 11:27-C



2012 11:27



Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name <i>Equity Realty Group Inc.</i>	Last Name / Organization	E-mail Address	<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) <i>50 Baywater Ave</i>		Municipality <i>Ottawa</i>	Province <i>ON</i>
		Postal Code <i>K1J 2E9</i>	Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name) <i>270 City Centre Ottawa</i>		Township	Lot	Concession
County/District/Municipality		City/Town/Village <i>Ottawa</i>	Province Ontario	Postal Code
UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	
<i>NAD 83</i>	<i>18443347</i>	<i>5028544</i>	Other	

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 (mft) From	Depth (mft) To
<i>BHK</i>	<i>Muck</i>	<i>clay</i>	<i>soft, dry</i>	<i>0</i>	<i>2.74</i>
<i>Brn</i>	<i>Cobbles</i>	<i>course sand</i>	<i>hard saturated</i>	<i>2.74</i>	<i>3.35</i>

Annular Space		
Depth Set at (mft) From	To	Type of Sealant Used (Material and Type)
<i>0</i>	<i>.31</i>	<i>Concrete/flushmount</i>
<i>.31</i>	<i>.91</i>	<i>Benseal</i>
<i>.91</i>	<i>3.35</i>	<i>Sand</i>

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft) From	To	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
<i>5.20</i>	<i>PVC</i>	<i>.390</i>	<i>0</i>	<i>.91</i>	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft) From	To
<i>6.03</i>	<i>PVC</i>	<i>10</i>	<i>.91</i>	<i>3.35</i>

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
If pumping discontinued, give reason: Pump intake set at (mft) Pumping rate (l/min / GPM) Duration of pumping hrs + min Final water level end of pumping (mft) If flowing give rate (l/min / GPM) Recommended pump depth (mft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	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		

Map of Well Location
Please provide a map below following instructions on the back.

See map MW1203

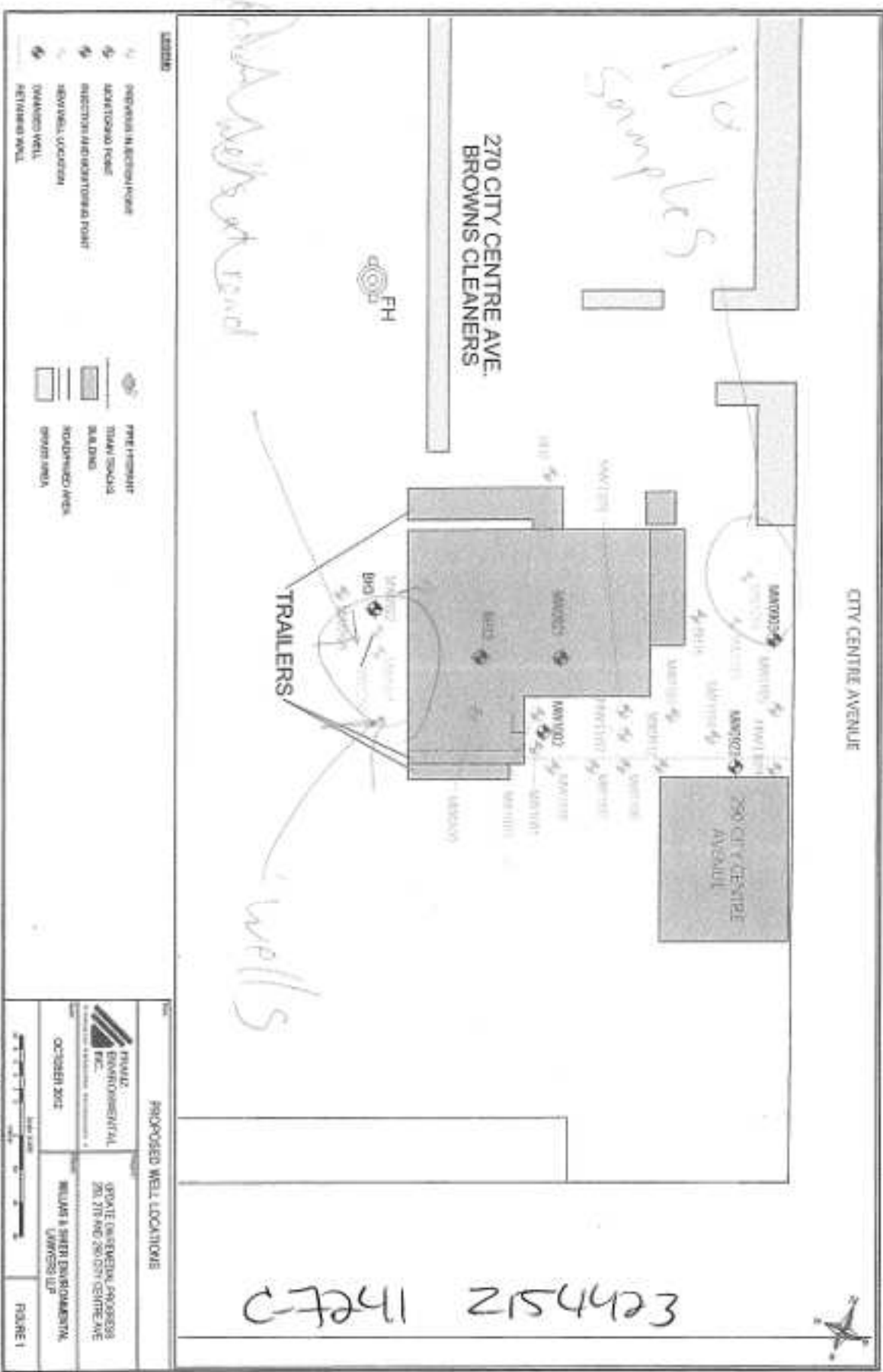
Water Details		Hole Diameter	
Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (mft) From	Diameter (cm/in)
		<i>0</i>	<i>11.43</i>

Well Contractor and Well Technician Information			
Business Name of Well Contractor <i>Strata Drilling Group</i>		Well Contractor's Licence No. <i>7241</i>	
Business Address (Street Number/Name) <i>147-2 W. Beaver Creek</i>		Municipality <i>Richmond Hill</i>	
Province <i>ON</i>	Postal Code <i>L4B 1C6</i>	Business E-mail Address <i>wrecords@stratasoil.com</i>	
Bus. Telephone No. (inc. area code) <i>9057649304</i>	Name of Well Technician (Last Name, First Name) <i>Beath Brian</i>		
Well Technician's Licence No. <i>316116</i>	Signature of Technician and/or Contractor <i>[Signature]</i>	Date Submitted <i>2012/11/23</i>	

Ministry Use Only	
Audit No. 2154423	
Date Package Delivered <i>2012/11/21</i>	Date Work Completed <i>2012/11/21</i>
Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	

Go to refusal + 10' screen

S-13358
TCLP
on all wells



10/10/2012

Measurements recorded in: Metric Imperial

Page _____ of _____

Well Owner's Information

First Name: [Redacted] Last Name / Organization: **City of Ottawa** E-mail Address: _____ Well Constructed by Well Owner

Number/Name: _____ Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1J1** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **250 City Centre Ave.** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18R** Easting: **443815** Northing: **5928611** Municipal Plan and Sublot Number: _____ Other: _____

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 (mft)	
				From	To
BLK	asphalt	gravel	loose	0	0.31
BRN	sand	gravel	soft	0.31	2.13
GRY	sand	silt	packed	2.13	4.11

Annular Space

Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
0 - 0.31	concrete/flushmount	
0.31 - 0.91	bitumite	
0.91 - 4.11	filter sand	

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
<input type="checkbox"/> Clear and sand free				
<input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:				
	1		1	
Pump intake set at (mft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping hrs + min	4		4	
Final water level end of pumping (mft)	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
Recommended pump depth (mft)	25		25	
Recommended pump rate (l/min / GPM)	30		30	
Well production (l/min / GPM)	40		40	
Disinfected?	50		50	
<input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air-percussion Industrial

Other, specify **Direct Push** Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft)		Status of Well
			From	To	
4.03	PVC	0.368	0	1.07	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)		Status of Well
			From	To	
4.82	PVC	10	1.07	4.11	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (mft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (mft): From 0 To 4.11 Diameter (cm/in): 8.25
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Stada Soil Sampling** Well Contractor's Licence No.: **7241**

Business Address (Street Number/Name): **147 West Beaver Creek** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@stadasoil.com**

Bus Telephone No. (inc. area code): **905-764-9304** Name of Well Technician (Last Name, First Name): **McLay, JAMES**

Well Technician's License No.: **3656** Signature of Technician and/or Contractor: _____ Date Submitted: **2013 05 31**

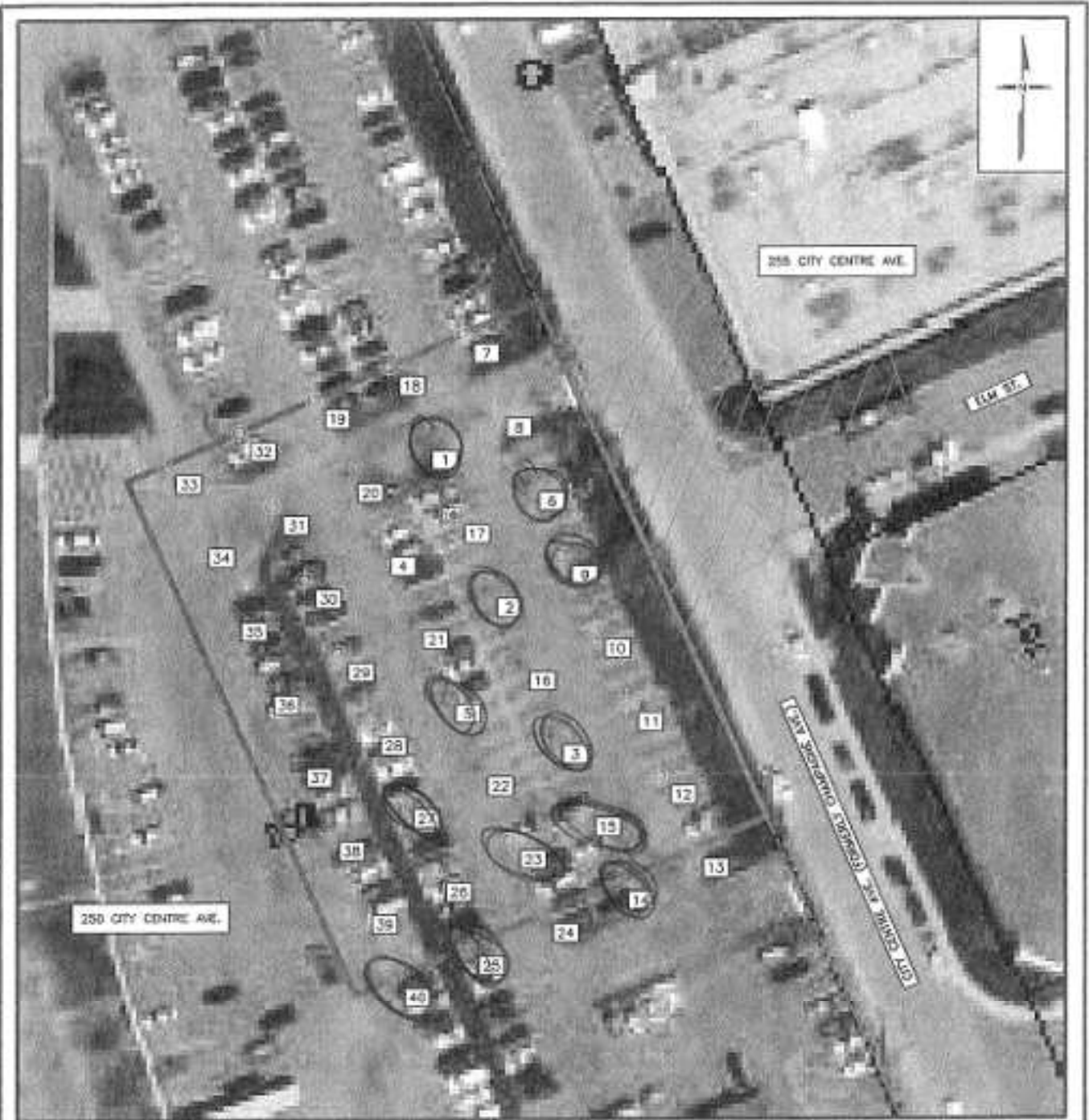
Map of Well Location

Please provide a map below following instructions on the back.

see map
9

Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: _____	Ministry Use Only Audit No: Z168590
Date Work Completed: 2013 04 18		

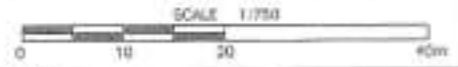


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "M" = METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No: 07103	File No.: 07103-250CC-PUB-1	Date: MARCH 2013	Org. No.: FIGURE 2
	Drawn: EM	Checked: EV	Project Manager: JPP	

C-7211 2168590

MAR 27 2013



A145954

Tag#: A145954

Measurements recorded in: Metric Imperial

Well Owner's Information

Last Name / Organization: **City of Ottawa** E-mail Address: _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name): **110 Laurier Ave., West, 5th Floor** Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1S1** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **250 City Centre Ave.** Township: _____ Lat: _____ Concession: _____

County/District/Municipality: **Ottawa** City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates Zone Easting Northing
 NAD 83 18 443813 5028617

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/f)	
				From	To
BLK	asphalt	gravel	loose	0	0.57
BRN	sand	gravel	soft	0.57	2.13
GRY	sand	silt	packed, wet	2.13	4.57

Annular Space

Depth Set at (m/f)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.57	concrete/flush mount	
0.57 - 1.22	bentonite	
1.22 - 4.57	filter sand	

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason:
 Static Level: _____

Time (min)	Draw Down		Recovery	
	Water Level (m/f)	Time (min)	Water Level (m/f)	Time (min)
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		

Pump intake set at (m/f): _____

Pumping rate (l/min / GPM): _____

Duration of pumping: _____ hrs + _____ min

Final water level end of pumping (m/f): _____

If flowing give rate (l/min / GPM): _____

Recommended pump depth (m/f): _____

Recommended pump rate (l/min / GPM): _____

Well production (l/min / GPM): _____

Disinfected? Yes No

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial Other, specify _____

Other, specify **Direct Push**

Construction Record - Casing

Inside Diameter (mm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm/in)	Depth (m/f)		Status of Well
			From	To	
4.03	PVC	3.68	0	1.52	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Widening Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (mm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/f)		Status of Well
			From	To	
4.82	PVC	10	1.52	4.57	<input type="checkbox"/> Other, specify _____

Water Details

Water found at Depth (m/f): _____ Kind of Water: Fresh Untested Gas Other, specify _____

Water found at Depth (m/f): _____ Kind of Water: Fresh Untested Gas Other, specify _____

Water found at Depth (m/f): _____ Kind of Water: Fresh Untested Gas Other, specify _____

Hole Diameter

Depth (m/f)		Diameter (mm/in)
From	To	
0	4.57	8.25

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strota Drilling Group** Well Contractor's Licence No.: **7247**

Business Address (Street Number/Name): **147 West Beaver Creek** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@strotasoil.com**

Comments:

Bus. Telephone No. (inc. area code): **1055 464-5304** Name of Well Technician (Last Name, First Name): **M. C. JAMES**

Well Technician's License No.: **3656** Signature of Technician and/or Contractor: _____ Date Submitted: **2013 05 31**

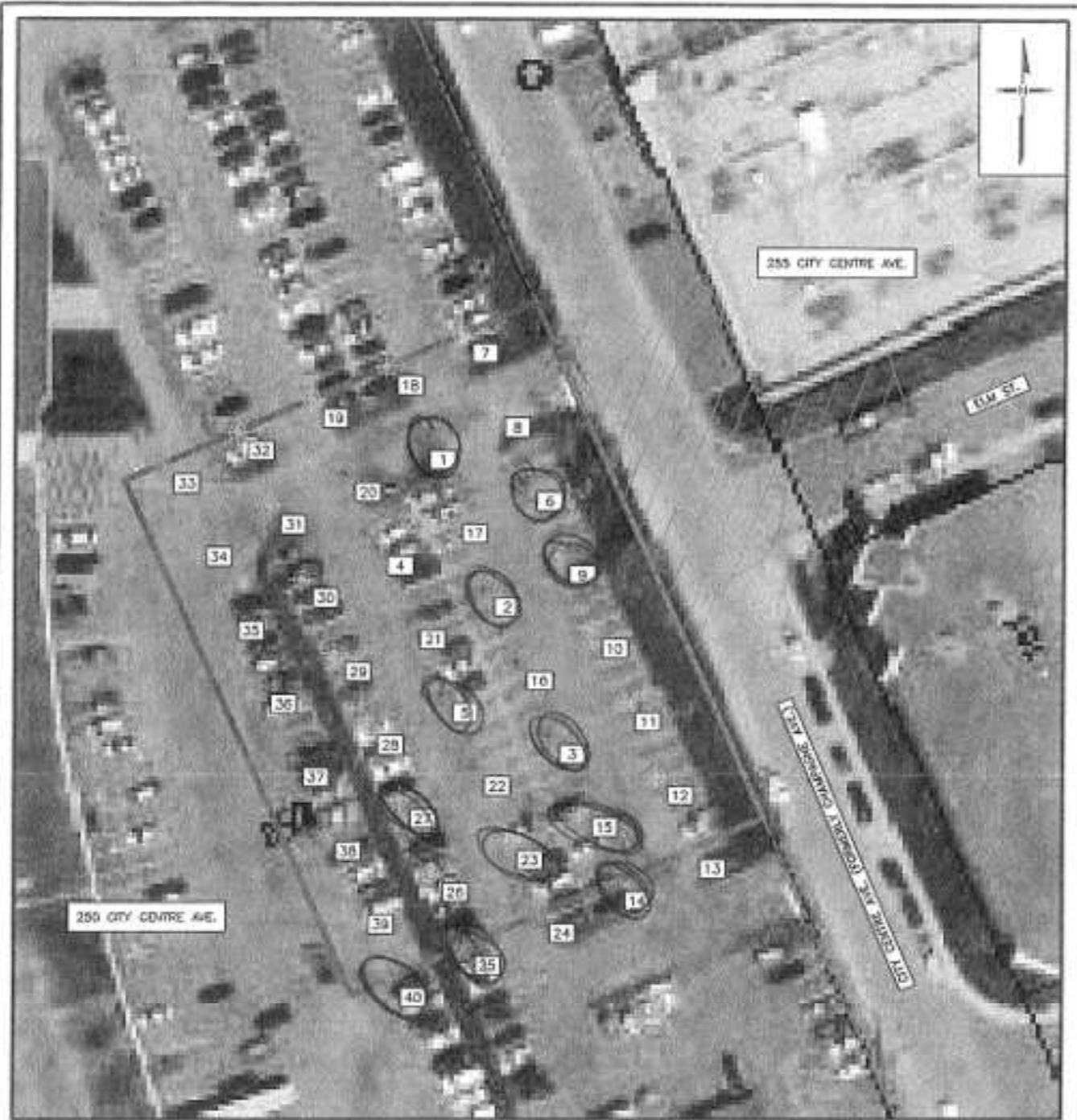
Well owner's information package delivered: Yes No

Date Package Delivered: _____

Date Work Completed: **2013 07 18**

Ministry Use Only
 Audit No.: **Z 168591**

See Map
6



NOTE(S):
 1. SCALE AND SIZE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' : METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No: 07103	Revision: 07103-250CC-PMM-1	Date: MARCH 2013	Draw No: FIGURE 2
	Drawn: EM	Verified: EV	Project Manager: RPT	

C-7241 2168591

Measurements recorded in: Metric Imperial

A145956 Tag#: A145956

Page ___ of ___

Well Owner's Information

Last Name / Organization City Centre of Ottawa		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Mailing Address (Street Number/Name) 110 Laurier Ave. West, 5th Floor		Municipality Ottawa	Province ON	Postal Code K1P1J1	Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name) 250 City Centre Ave.		Township	Lot	Concession
County/District/Municipality		City/Town/Village Ottawa	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing NAD 83 1844380 28028624	Municipal Plan and Sublot Number		Other	

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/ft)	
				From	To
BLK	ASPHALT	GRAVEL	LOOSE	0	0.31
BRN	SAND	GRAVEL	SOFT	-0.31	2.12
GRY	SAND	SILT	PACKED, WET	2.13	4.57

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.31	CONCRETE / FLUSHMONT	
0.31 - 1.22	BENTONITE	
1.22 - 4.57	FILTER SAND	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input checked="" type="checkbox"/> Other, specify D.P.	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input type="checkbox"/> Commercial <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify <input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Test Hole <input checked="" type="checkbox"/> Monitoring <input type="checkbox"/> Cooling & Air Conditioning

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
4.03	PVC	368	0	1.52	

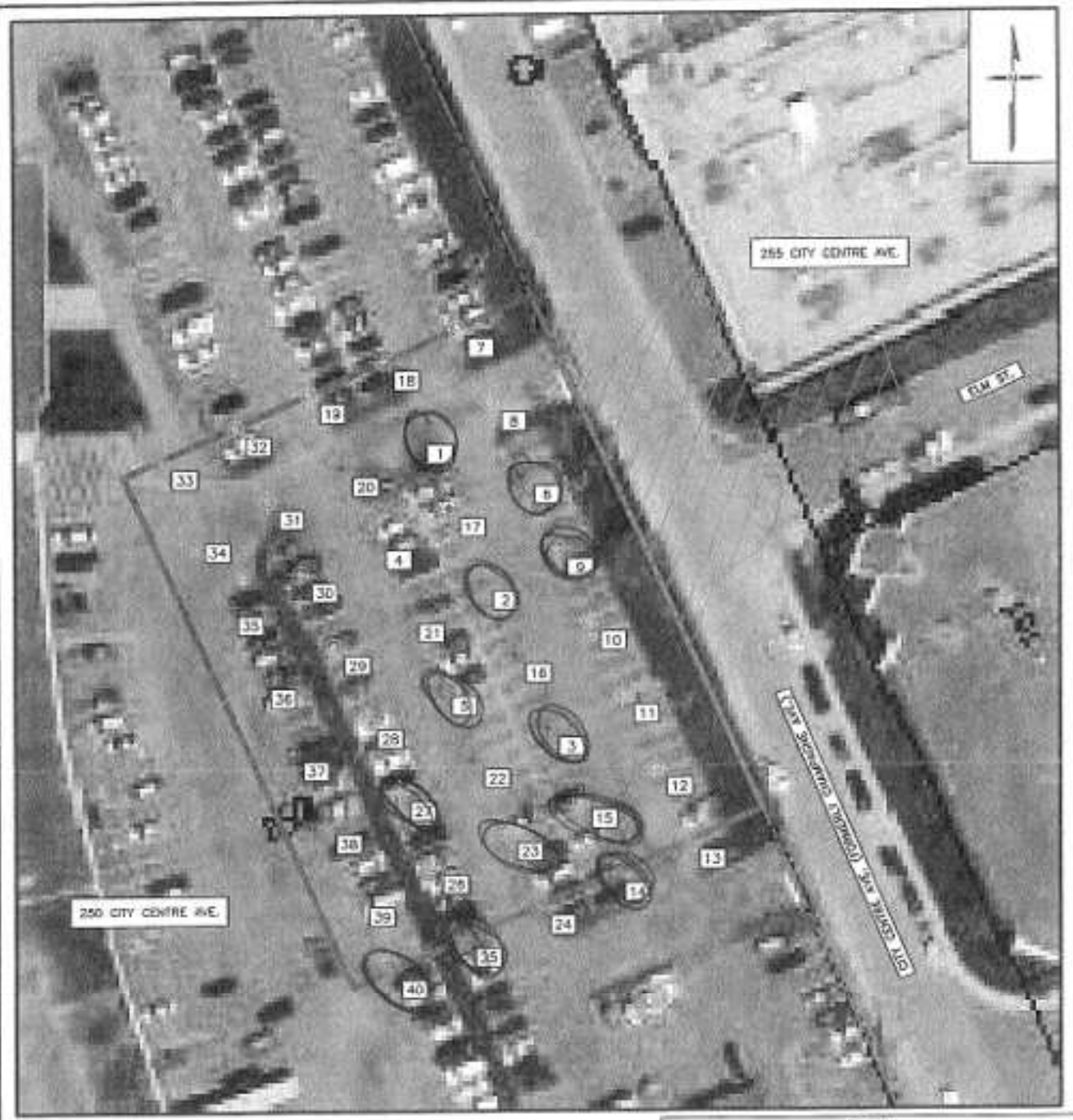
Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
4.82	PVC	10	1.52	4.57

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft)	Diameter (cm/in)
		0	4.57 / 8.25

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Drilling Group		Well Contractor's Licence No. 7241	
Business Address (Street Number/Name) 147 West Beaver Creek		Municipality Richmond Hill	
Province ON	Postal Code L4B1C6	Business E-mail Address wrecords@strata-soil.com	
Bus. Telephone No. (inc. area code) 905) 764-9304	Name of Well Technician (Last Name, First Name) MCCOY JAMES		
Well Technician's Licence No. 3656	Signature of Technician and/or Contractor		Date Submitted 2013 05 31

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping hrs + min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	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		

Map of Well Location	
Please provide a map below following instructions on the back.	
See Map	
1	
Well owner's information package delivered	Date Package Delivered
<input type="checkbox"/> Yes <input type="checkbox"/> No	2013 05 31
Date Work Completed	
2013 05 31	
Ministry Use Only	
Audit No.	
Z 168594	

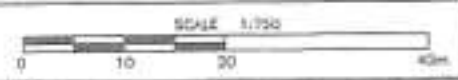


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED BY OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" = METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE I ESA STUDY AREA
- DELIMITED PLUME
- PROPOSED BORE-HOLE (LOWEST INTEREST)
- PROPOSED BORE-HOLE (MODERATE INTEREST)
- PROPOSED BORE-HOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No: 07103	Manager: 07103-22000-PWR-1	Date: MARCH 2013	Drawn By: FIGURE 2
	Drawn: EM	Verified: BV	Project Manager: HPT	

C-72411 2168594

Measurements recorded in: Metric Imperial

Page of

Well Owner's Information

Last Name / Organization City of Ottawa		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner
Address (Street Number/Name) 110 Laurier Ave., West, 5th Floor		Municipality Ottawa	Province ON	Postal Code K1P1J1
Telephone No. (inc. area code)				

Well Location

Address of Well Location (Street Number/Name) 250 CITY CENTRE AVE		Township	Lot	Concession
Country/District/Municipality		City/Town/Village OTTAWA	Province Ontario	Postal Code
UTM Coordinates Zone Easting Northing NAD 83 18R 438075 6028608		Municipal Plan and Sublot Number		

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/ft)	
				From	To
BLK	ASPHALT	GRAVEL	LOOSE	0	0.31
BRN	SAND	GRAVEL	SOFT	31	2.13
GRY	SAND	SILT	PACKED WET	2.13	4.57

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.31	CONCRETE / FLUSHMOUNT	
0.31 - 1.22	BENTONITE	
1.22 - 4.57	FILTER SAND	

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down	Recovery
If pumping discontinued, give reason:	Time (min)	Water Level (m/ft)
Pump intake cut at (m/ft)	Time (min)	Water Level (m/ft)
Pumping rate (liters / GPM)	Time (min)	Water Level (m/ft)
Duration of pumping hrs + min	Time (min)	Water Level (m/ft)
Final water level end of pumping (m/ft)	Time (min)	Water Level (m/ft)
If flowing give rate (liters / GPM)	Time (min)	Water Level (m/ft)
Recommended pump depth (m/ft)	Time (min)	Water Level (m/ft)
Recommended pump rate (liters / GPM)	Time (min)	Water Level (m/ft)
Well production (liters / GPM)	Time (min)	Water Level (m/ft)
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Time (min)	Water Level (m/ft)

Method of Construction

<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jeting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input checked="" type="checkbox"/> Other, specify DIP		<input type="checkbox"/> Other, specify		

Construction Record - Casing

Inside Diameter (mm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm/in)	Depth (m/ft)		Status of Well
			From	To	
403	PVC	368	0	1.52	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen

Outside Diameter (mm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
4.82	PVC	10	1.52	4.57	<input type="checkbox"/> Other, specify

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter Depth (m/ft) From To	Diameter (mm/in)
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		

Well Contractor and Well Technician Information

Business Name of Well Contractor STRATA DRILLING GROUP		Well Contractor's Licence No. 7 2 4 1 1
Business Address (Street Number/Name) 147 WEST BEAVER CREEK		Municipality RICHMOND HILL
Province ON	Postal Code L4B 1C6	Business E-mail Address WRECORDS@STRATASOIL.COM
Bus. Telephone No. (inc. area code) 905 764 9304		
Name of Well Technician (Last Name, First Name) MCCOY, JAMES		
Well Technician's Licence No. 3 6 5 6		
Signature of Technician and/or Contractor Date Submitted 2013 05 31		

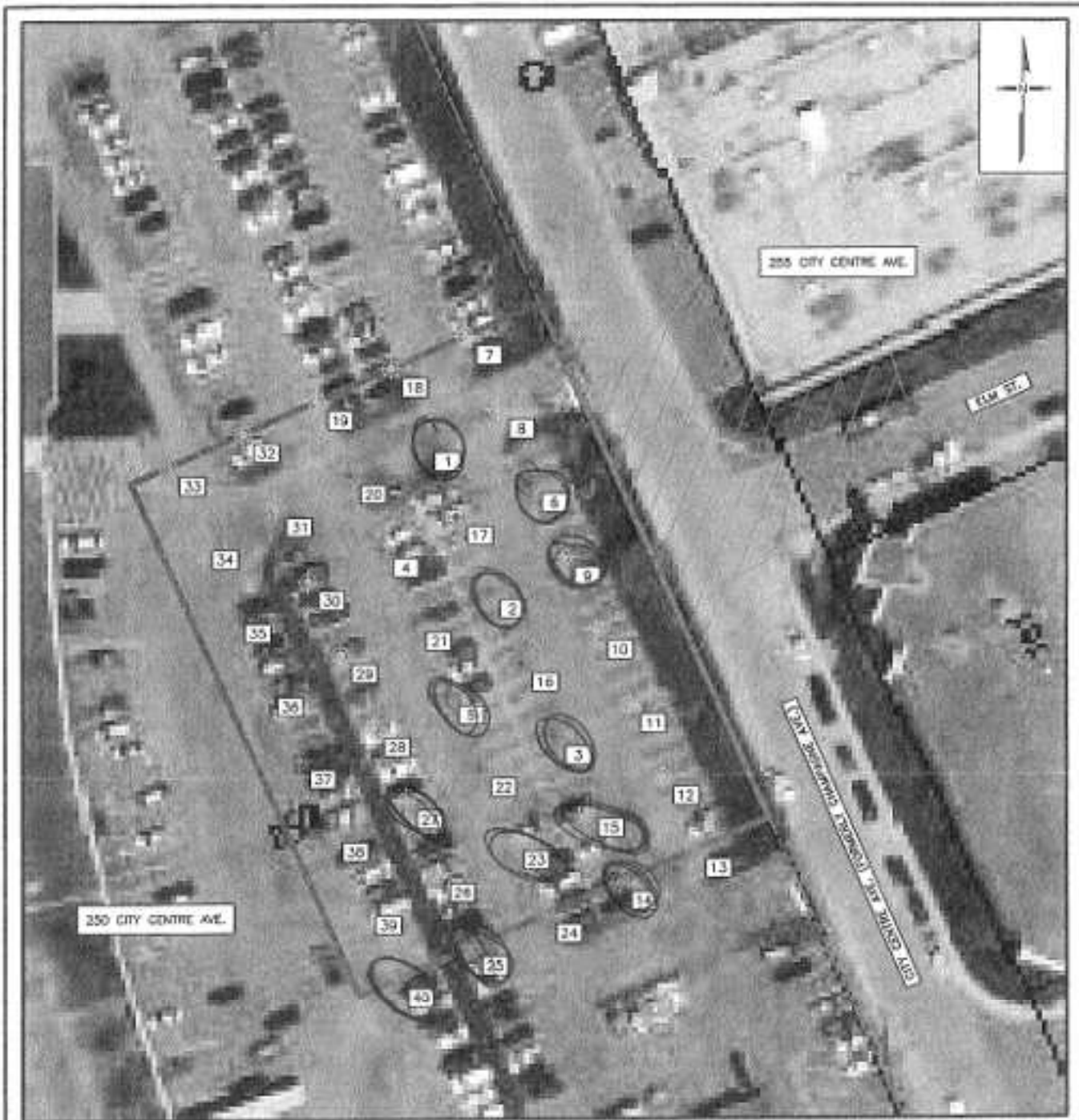
Map of Well Location

Please provide a map below following instructions on the back.

See Map 2

Comments:

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2013 05 31	Ministry Use Only Audit No. Z 168595
Date Work Completed 2013 04 18	Received	

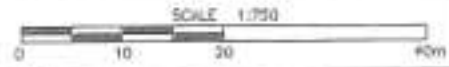


NOTE(S):
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 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" = METRES

SOURCE(S)
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLANE
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location		Title	
	CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		PROPOSED BOREHOLE LOCATIONS	
	Project No.	Phase	Date	Rep. No.
07103	07103-250CC-PH2-1	MARCH 2013	FIGURE 2	
Drawn	Verified	Project Manager		
EM	EV	RPT		

C-7241 2168595

177-27-003

Measurements recorded in: Metric Imperial

Page _____ of _____

A145958

Well Owner's Information

Last Name / Organization: **City of Ottawa**
 E-mail Address: _____
 Well Constructed by Well Owner
 Member Name: _____ Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1S1**
 Telephone No. (inc. area code): _____
 110 Laurier Ave., West, 5th Floor

Well Location

Address of Well Location (Street Number/Name): **250 City Centre Ave**
 Township: _____ Lot: _____ Concession: _____
 County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18R** Easting: **438041** Northing: **5028591**
 Municipal Plan and Sublot Number: _____ Other: _____

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 (mft)
				From To
BLK	asphalt	gravel	loose	0 .31
BRN	sand	gravel	soft	.31 2.13
GRY	silt	sand, gravel	packed	2.13 4.57

Annular Space

Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
0 .31	concrete / chushment	
.31 1.22	benonite	
1.22 4.57	litter sand	

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
If pumping discontinued, give reason: _____	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
Recommended pump depth (mft)	60		60	
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected?	<input type="checkbox"/> Yes <input type="checkbox"/> No			

Method of Construction

Cable Tool Diamond Public Commercial Not used
 Rotary (Conventional) Jetting Domestic Municipal Dewatering
 Rotary (Reverse) Driving Livestock Test Hole Monitoring
 Boring Digging Irrigation Cooling & Air Conditioning
 Air percussion Industrial
 Other, specify **Direct Push** Other, specify _____

Construction Record - Casing

Inside Diameter (mm)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (mm)	Depth (mft)		Status of Well
			From	To	
4.03	PVC	.368	0	1.52	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (mm)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)	
			From	To
4.82	PVC	10	1.52	4.57

Water Details

Water found at Depth (mft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (mft): From To Diameter (mm)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 4.57 8.25
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Standa Drilling Group** Well Contractor's Licence No.: **72411**
 Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**
 Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@standasoil.com**
 Bus Telephone No. (inc. area code): **905-704-9304** Name of Well Technician (Last Name, First Name): **McCoy, James**
 Well Technician's License No.: **3656** Signature of Technician and/or Contractor: _____ Date Submitted: **20130531**

Map of Well Location

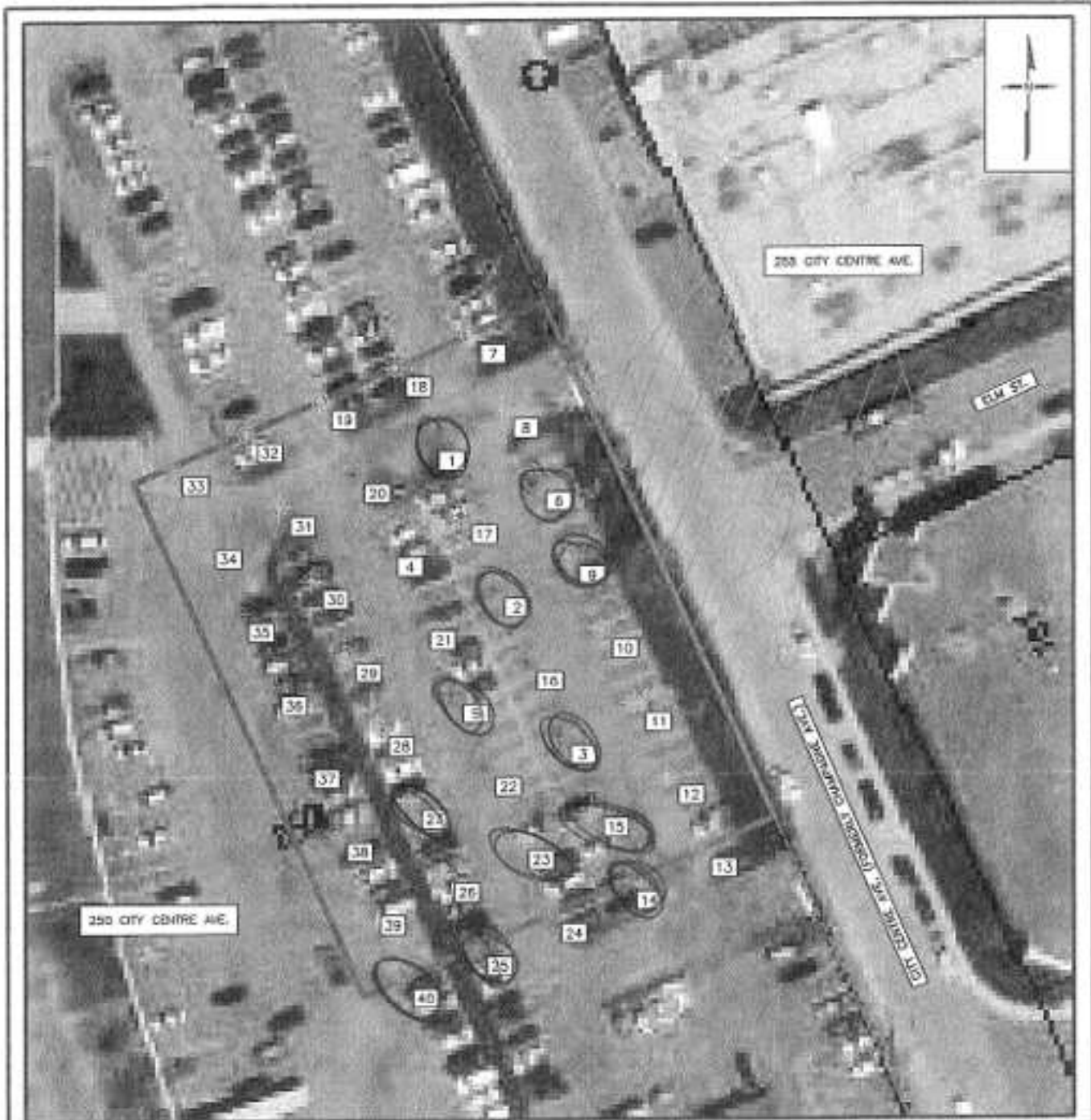
Please provide a map below following instructions on the back.

See map 5

Comments: _____

Well owner's information package delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: _____	Ministry Use Only Audit No.: Z168668
Date Work Completed: 20130418		

S-1398

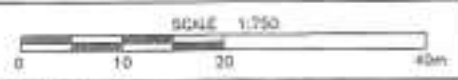


NOTES:
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' = METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location CITY OF OTTAWA 350 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title PROPOSED BOREHOLE LOCATIONS	
	Project No. 07103	Revision 07103-25000-PUB-1	Date MARCH 2013	Draw No. FIGURE 2
	Drawn SA	Verified EV	Project Manager DPT	

C-7241 2.168668

Measurements recorded in: Metric Imperial

Page ___ of ___

A145959

Well Owner's Information

Last Name / Organization City of Ottawa		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner
Mailing Address (Street Number/Name) 110 Laurier Ave., West, 5th Floor		Municipality Ottawa	Province ON	Postal Code K1P1J1
Telephone No. (inc. area code)				

Well Location

Address of Well Location (Street Number/Name) 250 City Centre Ave		Township	Lot	Concession
County/District/Municipality		City/Town/Village Ottawa	Province Ontario	Postal Code

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	44381	65828558		

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 (mft)	
				From	To
BLK	asphalt	gravel	loose	0	0.31
BRN	sand	gravel	soft	0.31	2.74
GRY	silt	sand, gravel	soft	2.74	4.57

Annular Space		
Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.31	concrete flushment	
0.31 - 1.22	bentonite	
1.22 - 4.57	litter sand	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input checked="" type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input checked="" type="checkbox"/> Monitoring
<input type="checkbox"/> Air percussion	<input type="checkbox"/> Direct Push	<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & Air Conditioning
<input checked="" type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (mft)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
4.03	PVC	0.368	0	1.52	

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)	
			From	To
4.82	PVC	10	1.72	4.57

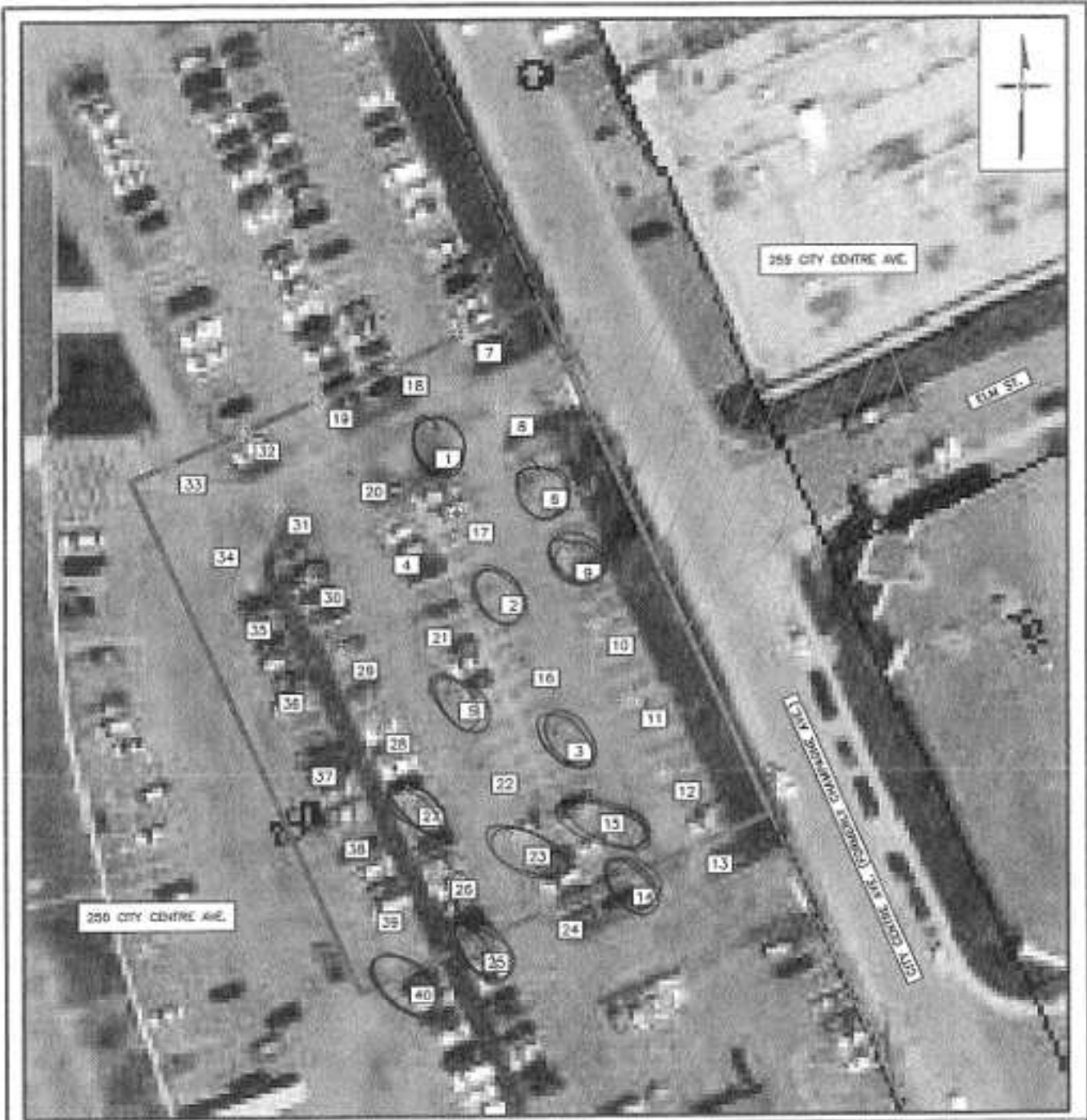
Water Details		Hole Diameter	
Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untasted <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (mft) From	To Diameter (cm/in)
0		0	4.57/8.25

Well Contractor and Well Technician Information			
Business Name of Well Contractor Strata Drilling Group		Well Contractor's Licence No. 7241	
Business Address (Street Number/Name) 147-2 West Beaver Creek Rd		Municipality Richmond Hill	
Province ON	Postal Code L4B1C6	Business E-mail Address wrecords@strataoil.com	
Bus Telephone No. (inc. area code) 905 704 9304		Name of Well Technician (Last Name, First Name) McLug, JAMES	
Well Technician's Licence No. 3655		Signature of Technician and/or Contractor <i>[Signature]</i>	
Date Submitted 20130531			

Results of Well Yield Testing			
After test of well yield, water was:		Draw Down	
<input type="checkbox"/> Clear and sand free		Time (min)	Water Level (mft)
<input type="checkbox"/> Other, specify		Time (min)	Water Level (mft)
If pumping discontinued, give reason:		Recovery	
Static Level		Time (min)	Water Level (mft)
1		1	
Pump intake set at (mft)		2	
2		2	
Pumping rate (l/min / GPM)		3	
3		3	
Duration of pumping		4	
hrs + min		4	
5		5	
Final water level end of pumping (mft)		10	
10		10	
If flowing give rate (l/min / GPM)		15	
15		15	
Recommended pump depth (mft)		20	
20		20	
Recommended pump rate (l/min / GPM)		25	
25		25	
30		30	
Well production (l/min / GPM)		30	
30		30	
40		40	
40		40	
50		50	
50		50	
Disinfected?		50	
<input type="checkbox"/> Yes <input type="checkbox"/> No		60	
60		60	

Map of Well Location	
Please provide a map below following instructions on the back.	
see map 3	
Comments:	
Well owner's information package delivered	Date Package Delivered
<input type="checkbox"/> Yes <input type="checkbox"/> No	20130919
Date Work Completed	
20130919	
Ministry Use Only	
Auxil No.	
Z 168669	

S-1398

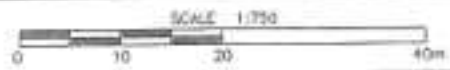


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" = METRES

SOURCE(S)
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE 8 ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No.: 07103	File No.: 07103-250CC-P8B-1	Date: MARCH 2013	Orig No.: FIGURE 2
	Drawn: EM	Verified: EV	Project Manager: RPT	

07241 2168669



Measurements recorded in: Metric Imperial

A145960

Tag#: A145960

Page of

Well Owner's Information

Last Name / Organization: **City of Ottawa** E-mail Address: _____ Well Constructed by Well Owner

Number/Name: _____ Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1J1** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **250 City Centre Ave** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone **18** Easting **413799** Northing **5028584** Municipal Plan and Sublot Number: _____ Other: _____

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 (mft)
				From To
BLK	asphalt	gravel	loose	0 .31
BRN	sand	gravel	soft	1.31 2.0
GRY	silt	sand, gravel	soft	2.13 4.57

Annular Space

Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
From To		
0 .31	concrete / flushment	
.71 1.22	bentonite	
1.22 4.57	filter sand	

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
<input type="checkbox"/> Clear and sand free				
<input type="checkbox"/> Other, specify _____				
If pumping discontinued, give reason:	Basic Level			
	1		1	
Pump intake set at (mft)	2		2	
Pumping rate (l/min / GPM)	3		3	
Duration of pumping hrs + min	4		4	
Final water level end of pumping (mft)	5		5	
	10		10	
If flowing give rate (l/min / GPM)	15		15	
	20		20	
Recommended pump depth (mft)	25		25	
Recommended pump rate (l/min / GPM)	30		30	
Well production (l/min / GPM)	40		40	
	50		50	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	60		60	

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Driving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial

Other, specify **Direct Push** Other, specify _____

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm/in)	Depth (mft)		Status of Well
			From	To	
4.03	PVC	.368	0	1.52	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (mft)	
			From	To
4.82	PVC	10	1.52	4.57

Water Details

Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Hole Diameter
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Depth (mft) From To
		0 4.57 8.75

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Drilling Group** Well Contractor's Licence No.: **7241**

Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@strata.coil.com**

Bus Telephone No. (inc. area code): **905 704 9304** Name of Well Technician (Last Name, First Name): **Mc Coy, JAMES**

Well Technician's Licence No.: **3656** Signature of Technician and/or Contractor: _____ Date Submitted: **20130531**

Map of Well Location

Please provide a map below following instructions on the back.

see map 27

Well owner's information package delivered: Yes No

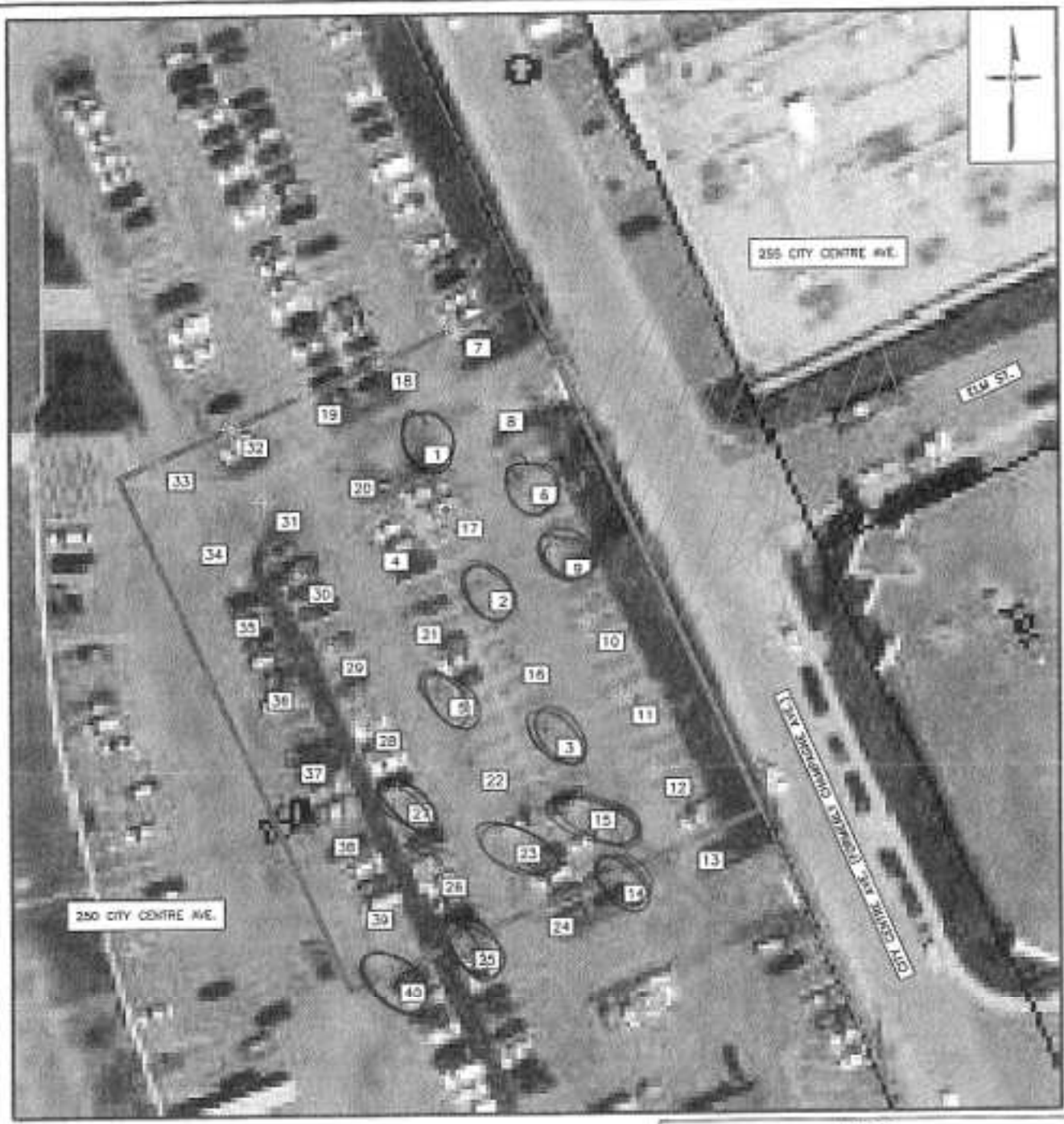
Date Package Delivered: _____

Date Work Completed: **20130419**

Ministry Use Only

Audit No.: **Z 168670**

S-13738

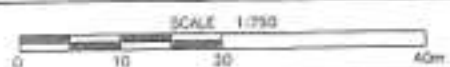


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No.: 07103	File No.: 07103-25000-PMP-1	Date: MARCH 2013	Proj. No.: FIGURE 2
	Drawn: EM	Validated: EV	Project Manager: RPT	

C-7241 2168670

Measurements recorded in: Metric Imperial

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A145964

Well Owner's Information

Last Name / Organization City of Ottawa		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Billing Address (Street Number/Name) 110 Laurier Ave. West, 5th Floor		Municipality Ottawa	Province ON	Postal Code K1P1J1	Telephone No. (inc. area code)

Well Location

Address of Well Location (Street Number/Name) 250 City Centre Ave.		Township	Lot	Concession
County/District/Municipality		City/Town/Village Ottawa	Province Ontario	Postal Code

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	18	443841	5025597		

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 (mft)	
				From	To
DLK	hard asphalt	gravel	100sc	0	0.31
BRN	sand	gravel	soft	0.31	2.77
GRY	silt	sand, gravel	soft	2.77	4.57

Annular Space		
Depth Set at (mft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³)
0 - 0.31	concrete/flush mount	
0.31 - 1.22	benonite	
1.22 - 4.57	filter sand	

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (mft)	Time (min)	Water Level (mft)
if pumping discontinued, give reason:	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
if flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
60		60		

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion	<input type="checkbox"/> Direct Push	<input type="checkbox"/> Industrial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify	<input type="checkbox"/> Dewatering

Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Well Thickness (mm/in)	Depth (mft)	
			From	To
4.03	PVC	368	0	1.52

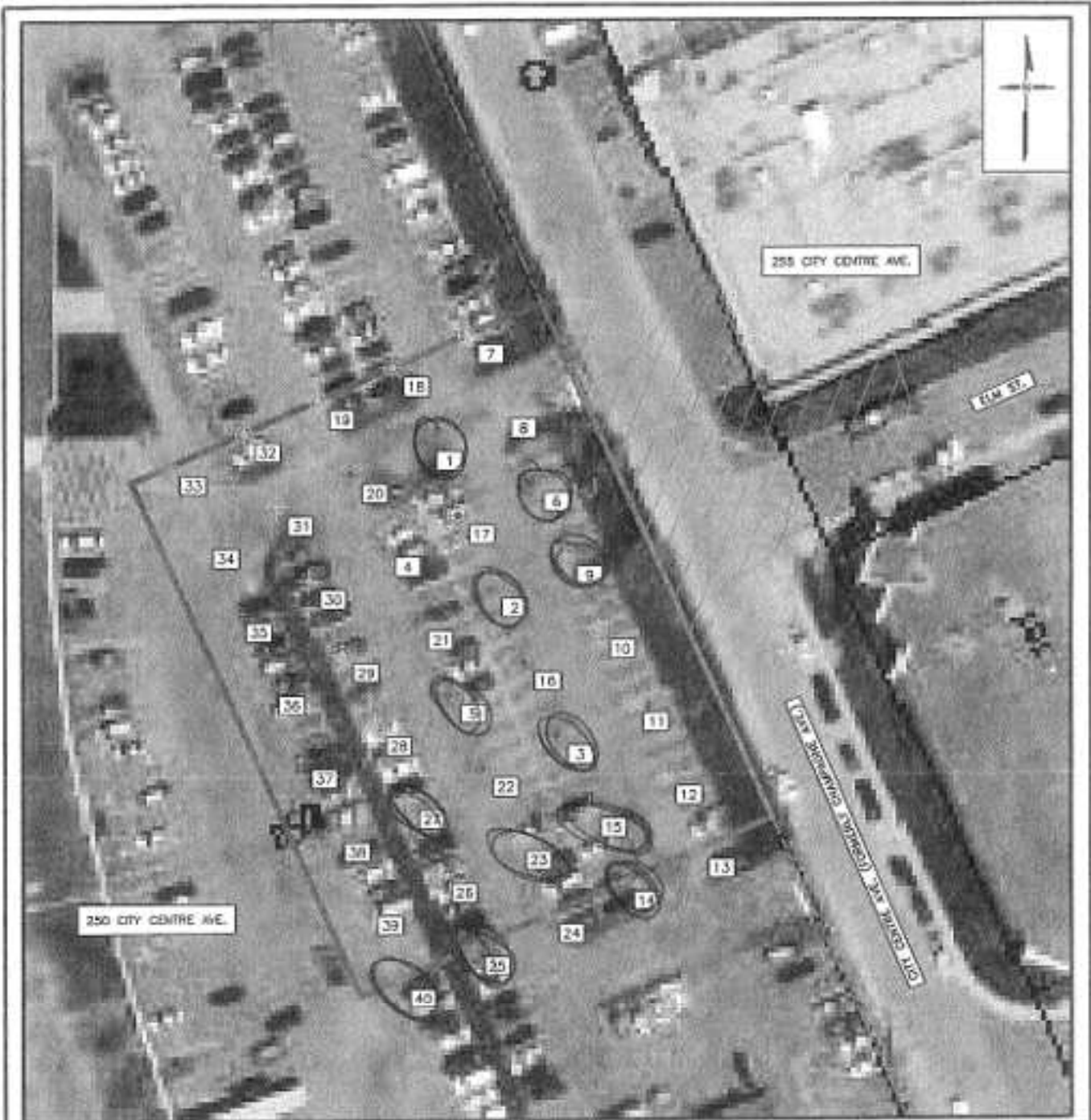
Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No	Depth (mft)	
			From	To
4.82	PVC	10	1.52	4.57

Water Details		Hole Diameter	
Water found at Depth (mft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (mft) From	Diameter (cm/in) To
0	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0	4.57 8.25

Well Contractor and Well Technician Information			
Business Name of Well Contractor Stata Drilling Group		Well Contractor's Licence No. 7241	
Business Address (Street Number/Name) Stata 47-2 West Beaver Creek Rd		Municipality Richmond Hill	
Province ON	Postal Code L4B1C6	Business E-mail Address wrecords@stata501.com	
Bus. Telephone No. (inc. area code) 905 704 9204	Name of Well Technician (Last Name, First Name) McLoy, James		
Well Technician's Licence No. 3656	Signature of Technician and/or Contractor		Date Submitted 2013 05 31

Map of Well Location		
Please provide a map below following instructions on the back.		
See Map 23		
Comments:		
Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered 2013 04 19	Ministry Use Only Audit No. Z168671

S-1398

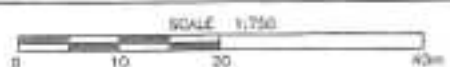


NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE.
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS.
 3. "m" : METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title PROPOSED BOREHOLE LOCATIONS	
	Project No. 07103	Revision 07103-20000-PM2-1	Date MARCH 2013	Doc No. FIGURE 2
	Drawn EM	Verified CY	Project Manager RPT	

(-7241 2168671



A145962

Measurements recorded in: Metric Imperial

Page of

Well Owner's Information

Last Name / Organization: **City of Ottawa** E-mail Address: _____ Well Constructed by Well Owner

Address (Street Number/Name): **110 Laurier Ave., West, 5th Floor** Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1J1** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **250 City Centre Ave.** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18** Easting: **844382** Northing: **205025580** Municipal Plan and Sublot Number: _____ Other: _____

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/ft)
				From To
BLK	asphalt	gravel	loose	0 .31
BRN	sand	gravel	soft	.31 2.74
GRY	silt	sand, gravel	soft	2.74 4.27

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 .31	concrete/mushmouth	
.31 .91	benfonite	
.91 4.27	filter sand	

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
if pumping discontinued, give reason: _____	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
if flowing give rate (l/min / GPM)	15		15	
	20		20	
	25		25	
	30		30	
	40		40	
	50		50	
Recommended pump depth (m/ft)	60		60	
Recommended pump rate (l/min / GPM)				
Well production (l/min / GPM)				
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No				

Method of Construction

Cable Tool Diamond Public Commercial Not used

Rotary (Conventional) Jetting Domestic Municipal Dewatering

Rotary (Reverse) Orving Livestock Test Hole Monitoring

Boring Digging Irrigation Cooling & Air Conditioning

Air percussion Industrial

Other, specify: **Direct Push** Other, specify _____

Construction Record - Casing

Inside Diameter (mm/ft)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm/ft)	Depth (m/ft)		Status of Well
			From	To	
4.03	PVC	.368	0	1.22	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (mm/ft)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
4.82	PVC	10	1.22	4.27

Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) Diameter (mm/ft)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From To
0 7.27		8.25

Well Contractor and Well Technician Information

Business Name of Well Contractor: **Strata Drilling Group** Well Contractor's Licence No.: **7241**

Business Address (Street Number/Name): **147-2 West Beaver Creek Rd** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **L4B1C6** Business E-mail Address: **wrecords@strata-soil.com**

Bus. Telephone No. (inc. area code): **905-764-9301** Name of Well Technician (Last Name, First Name): **McCoy, James**

Well Technician's Licence No.: **3656** Signatures of Technician and/or Contractor: _____ Date Submitted: **20130531**

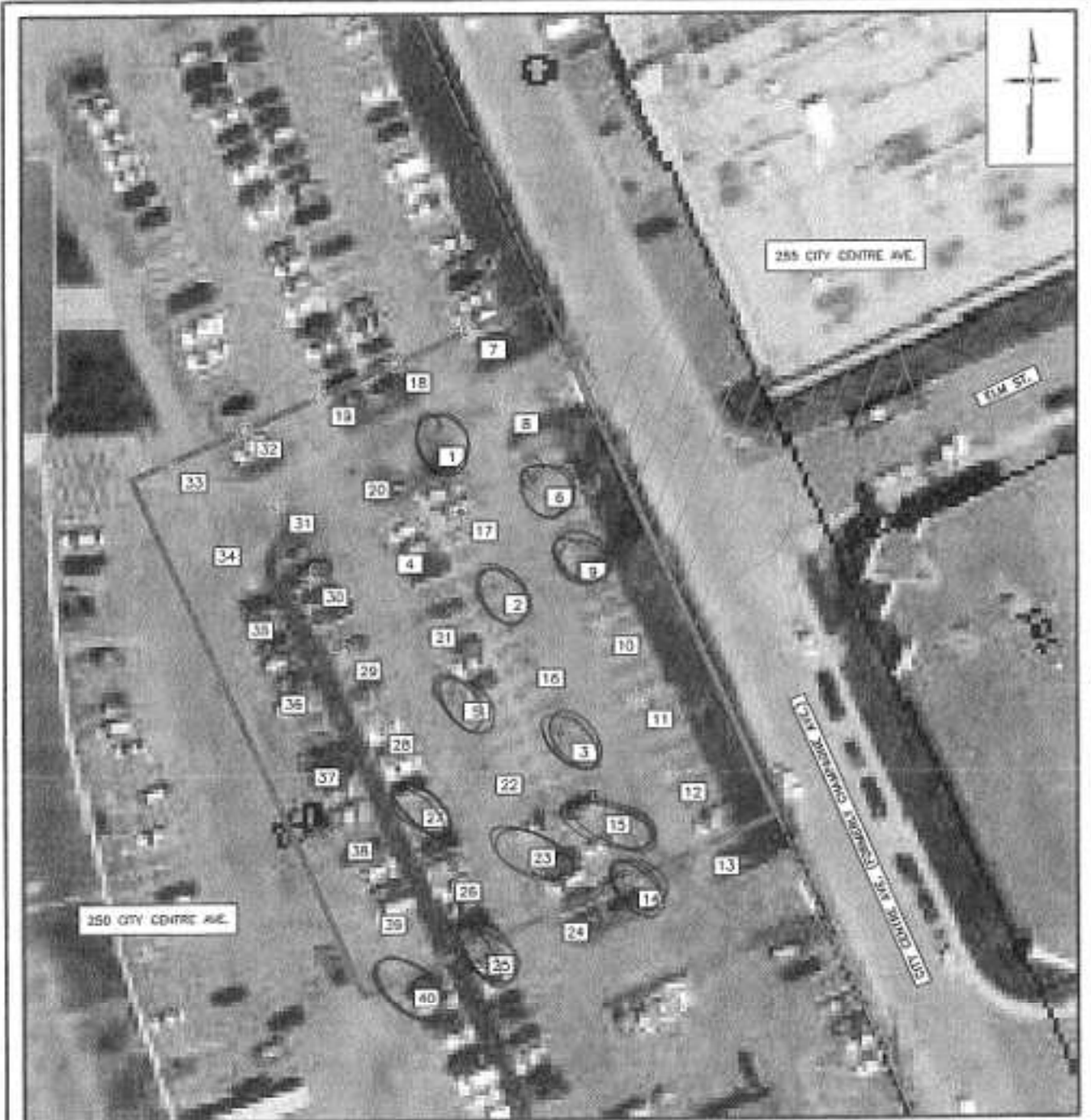
Map of Well Location

Please provide a map below following instructions on the back.

see map 15

Comments: _____

Well owner's information package delivered <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered _____	Ministry Use Only Audit No. Z 168672
Date Work Completed 20130419		

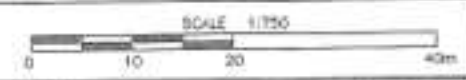


NOTE(S)
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 1" = 1 METRES

SOURCE(S)
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE I ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title PROPOSED BOREHOLE LOCATIONS	
	Project No. 07103	Revision 07103-250CC-PMP-1	Date MARCH 2013	Dwg No. FIGURE 2
	Drawn BM	Issued EV	Project Manager BPT	

C-7241 2168672



Measurements recorded in: Metric Imperial

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Well Owner's Information

Well Owner's Information form with fields for Last Name / Organization (City of Ottawa), E-mail Address, Municipality (Ottawa), Province (ON), Postal Code (K1P1J1), Telephone No., and checkboxes for Well Constructed by Well Owner.

Well Location

Well Location form with fields for Address of Well Location (250 City Centre Ave.), Township, Lot, Concession, City/Town/Village (Ottawa), Province (Ontario), Postal Code, UTM Coordinates, and Municipal Plan and Sublot Number.

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, and Depth (mft) From/To. Contains handwritten entries for BLK asphalt, BRN sand, and GRX silt.

Annular Space table with columns: Depth Set at (mft) From/To, Type of Sealant Used (Material and Type), and Volume Placed (m³). Contains handwritten entries for concrete flushmount, bentonite, and 1/2" filter sand.

Method of Construction and Well Use form with checkboxes for Cable Tool, Rotary (Conventional/Reverse), Boring, Air percussion, Other, Diamond, Jetting, Driving, Digging, Public, Commercial, Municipal, Livestock, Irrigation, Industrial, Other, and Well Use options like Test Hole, Monitoring, Cooling & Air Conditioning.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel), Wall Thickness (mm/in), Depth (mft) From/To, and Status of Well (Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, specify).

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (mft) From/To, and Status of Well.

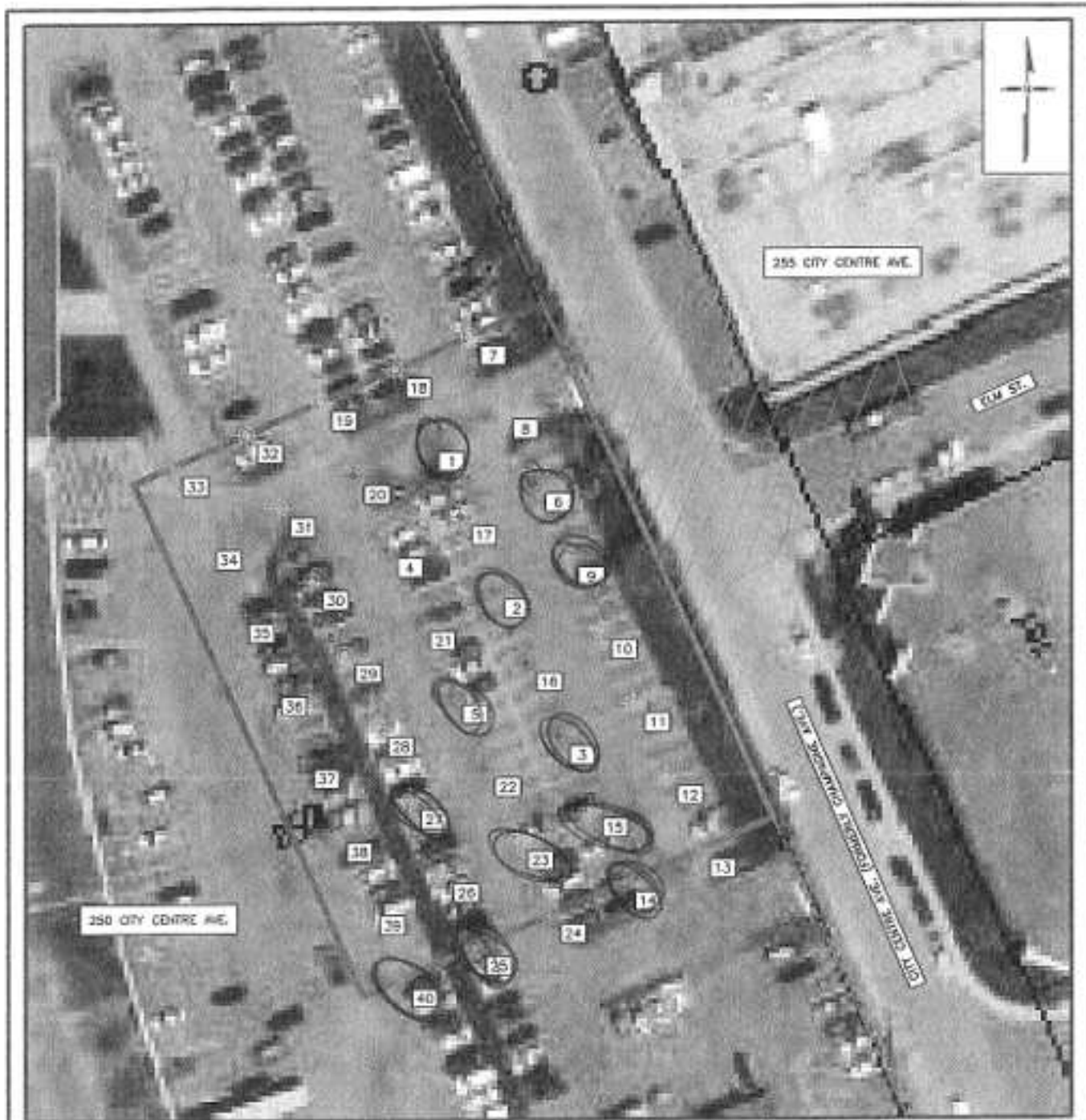
Water Details and Hole Diameter form with fields for Water found at Depth (mft), Kind of Water (Fresh, Untested, Gas, Other), and Hole Diameter (Depth and Diameter).

Well Contractor and Well Technician Information form with fields for Business Name of Well Contractor (Stata Drilling Group), Well Contractor's License No. (7241), Business Address (147-2 West Beaver Creek Rd), Municipality (Richard Hill), Province (ON), Postal Code (L4B1G6), Business E-mail Address (wrecords@stata-soil.com), Bus. Telephone No. (905) 461-9304, Name of Well Technician (McLoy, JAMES), Well Technician's License No. (3656), and Date Submitted (2013 05 31).

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level) and Recovery (Time, Water Level). Includes checkboxes for Clear and sand free, Other, and Disinfected? (Yes/No).

Map of Well Location form with a field for a map and handwritten text 'See Map 25'.

Ministry Use Only section with fields for Well owner's information package delivered (Yes/No), Date Package Delivered, Date Work Completed (2013 04 19), and Audit No. (Z 168673).

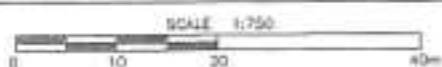


NOTES:
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' - METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No: 07103	Revision: 07103-2000-PLP-1	Date: MARCH 2013	Eng. No: FIGURE 2
	Drawn: EM	Modified: EV	Project Manager: RPT	

C-7241 2162673



Measurements recorded in: Metric Imperial

Page _____ of _____

A145964

Well Owner's Information

Last Name / Organization: City of Ottawa E-mail Address: Well Constructed by Well Owner

Mailing Address (Street Number/Name): 110 Laurier Ave, West, 5th Floor Municipality: Ottawa Province: ON Postal Code: K1P1J1 Telephone No. (inc. area code):

Well Location

Address of Well Location (Street Number/Name): 250 City Centre Ave. Township: Lot: Concession:

County/District/Municipality: City/Town/Village: Ottawa Province: Ontario Postal Code:

UTM Coordinates Zone: Easting: Northing: Municipal Plan and Sublot Number: Other:

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (mft) From, To. Rows include BLK asphalt, BRN sand, GRY silt.

Annular Space table with columns: Depth Set at (mft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/m²). Rows include concrete flushmount, bentonite, filter sand.

Results of Well Yield Testing table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level). Includes sections for After test of well yield, If pumping discontinued, Pump intake set at, Pumping rate, Duration of pumping, Final water level end of pumping, If flowing give rate, Recommended pump depth, Recommended pump rate, Well production, Disinfected?

Method of Construction and Well Use table with checkboxes for Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Domestic, Livestock, Irrigation, Commercial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring, Other.

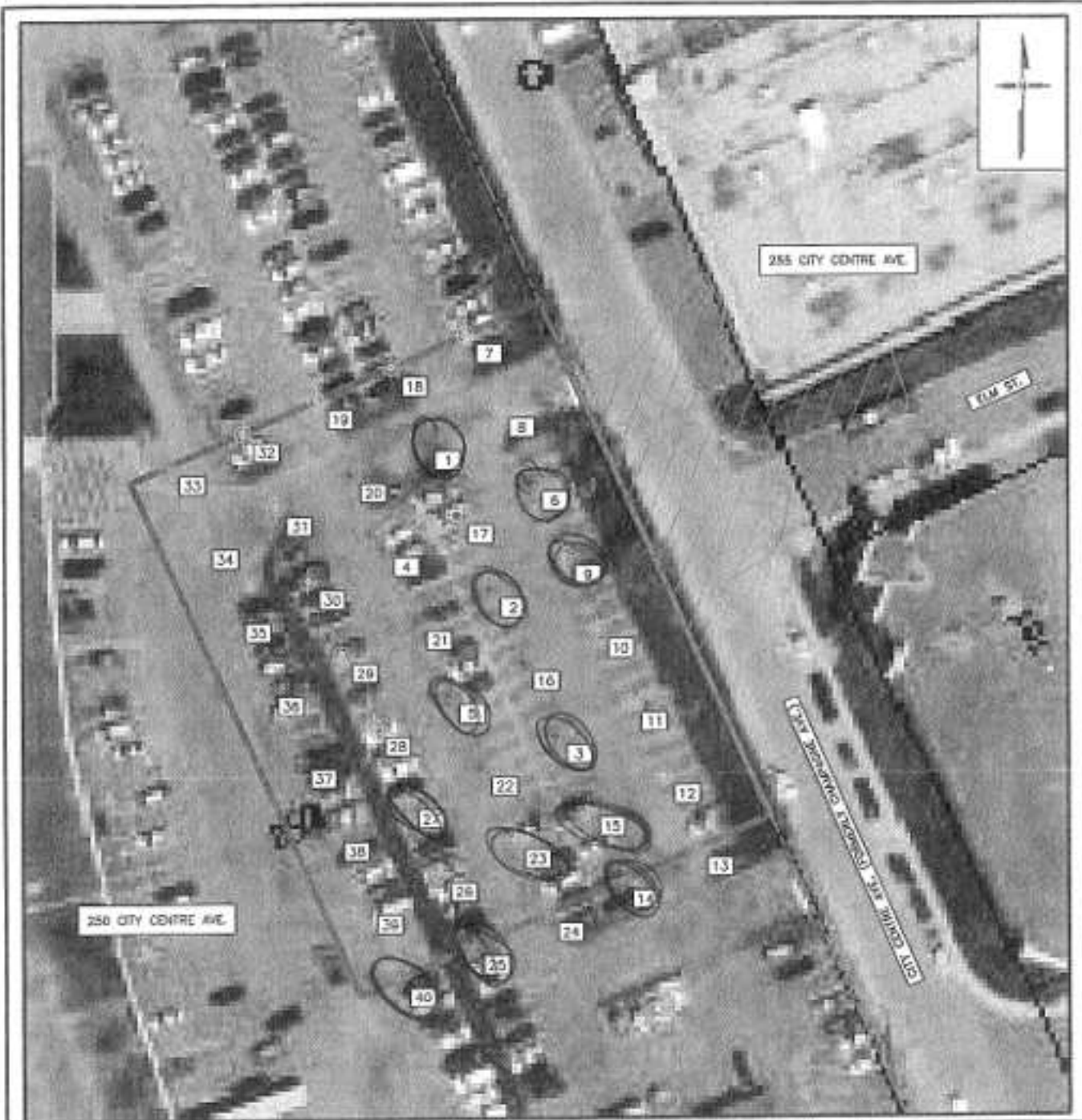
Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel), Well Thickness (cm/in), Depth (mft) From, To, Status of Well (Water Supply, Replacement Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Alteration, Abandoned, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, specify, Other).

Construction Record - Screen table with columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (mft) From, To.

Water Details and Hole Diameter table with columns: Water found at Depth (mft), Kind of Water (Fresh, Untasted, Gas, Other), Depth (mft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information table with fields: Business Name of Well Contractor (Stanta Drilling Group), Well Contractor's Licence No. (7241), Business Address (147-2 West Beaver Creek Rd), Municipality (Richmond Hill), Province (ON), Postal Code (L4B1G6), Business E-mail Address (wrecords@stanta.com), Bus. Telephone No. (905) 704-9304, Name of Well Technician (McGoy, James), Well Technician's License No. (31656), Signature of Technician and/or Contractor, Date Submitted (20130531).

Map of Well Location section with text: Please provide a map below following instructions on the back. See Map 14. Ministry Use Only section with fields: Audit No. (Z168674), Date Package Delivered, Date Work Completed (20130419), Well owner's information package delivered (Yes/No).

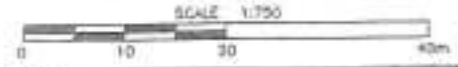


NOTE(S)
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED AT OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' = METRES

SOURCE(S)
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location: CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		Title: PROPOSED BOREHOLE LOCATIONS	
	Project No: 07103	Plan/Spec: 07103-250CC-PWP-1	Date: MARCH 2013	Drawn By: RST
	Drawn: EM	Checked: SY	Project Manager: RST	Figure No.: FIGURE 2

C-7241 2168674



Measurements recorded in: Metric Imperial

A145365

Tag#: A145365

Well Owner's Information

Last Name / Organization: **City of Ottawa** E-mail Address: _____ Well Constructed by Well Owner

Address (Street Number/Name): **110 Laurier Ave., West, 5th Floor** Municipality: **Ottawa** Province: **ON** Postal Code: **K1P1J1** Telephone No. (inc. area code): _____

Well Location

Address of Well Location (Street Number/Name): **E. 250 City Centre Ave** Township: _____ Lot: _____ Concession: _____

County/District/Municipality: _____ City/Town/Village: **Ottawa** Province: **Ontario** Postal Code: _____

UTM Coordinates: Zone: **18** Easting: **443793** Northing: **5028563** Municipal Plan and Sublot Number: _____ Other: _____

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/ft)	
				From	To
BLK	asphalt	gravel		0	0.31
BRN	sand	stones, brick		0.31	1.83
BRN	sand	stones		1.83	4.57

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
0 - 0.31	concrete flushmount	
0.31 - 1.22	bentonite	
1.22 - 4.57	filter sand	

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason: _____

Pump intake set at (m/ft): _____

Pumping rate (l/min / GPM): _____

Duration of pumping: _____ hrs + _____ min

Final water level end of pumping (m/ft): _____

If flowing give rate (l/min / GPM): _____

Recommended pump depth (m/ft): _____

Recommended pump rate (l/min / GPM): _____

Well production (l/min / GPM): _____

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
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

Well Use

Method of Construction: Direct Push

Well Use: Public Commercial Not used
 Domestic Municipal Dewatering
 Livestock Test Hole Monitoring
 Irrigation Cooling & Air Conditioning
 Industrial Other, specify _____

Construction Record - Casing

Status of Well

Inside Diameter (mm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (mm/in)	Depth (m/ft)		Status of Well
			From	To	
5.20	PVC	3.68	0	1.52	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____
4.03					

Construction Record - Screen

Outside Diameter (mm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		Status of Well
			From	To	
6.03	PVC	10	1.52	4.57	<input type="checkbox"/> Other, specify _____
4.82					

Water Details

Hole Diameter

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (mm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From To	
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	0 4.57	8.25

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): **117 West Beaver Creek** Municipality: **Richmond Hill**

Province: **ON** Postal Code: **R4B1G6** Business E-mail Address: **wrecords@strataoil.com**

Bus Telephone No. (inc. area code): **(905) 764-9304** Name of Well Technician (Last Name, First Name): **Mr. James**

Well Technician's License No.: **3656** Signature of Technician and/or Contractor Date Submitted: **2013 05 31**

Comments:

Well owner's information package delivered: Yes No

Date Package Delivered: _____

Date Work Completed: **2013 05 23**

Ministry Use Only

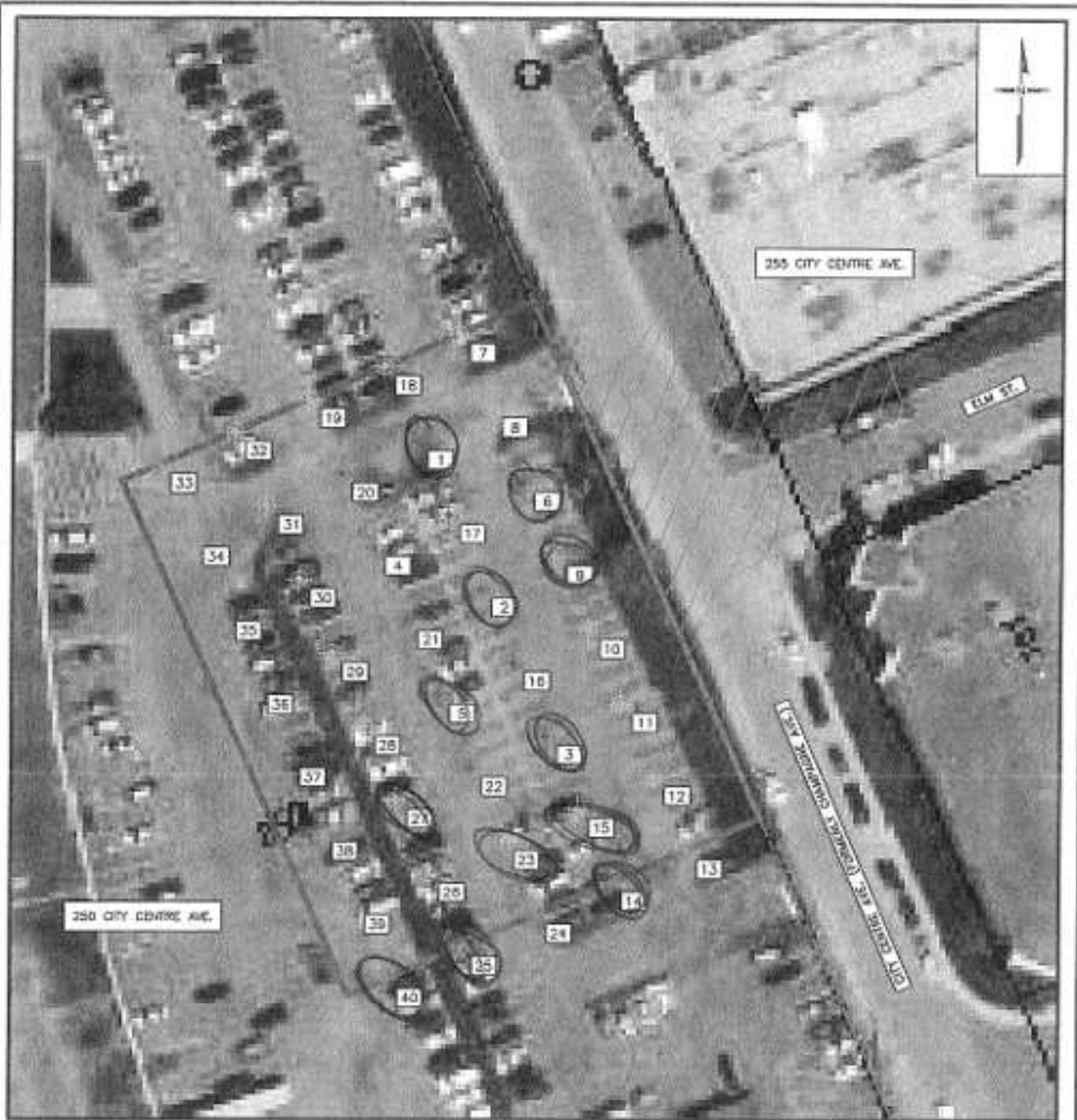
Audit No.: **2168676**

Map of Well Location

Please provide a map below following instructions on the back.

See map

40



NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PHOTOCOPIED, FAXED OR PRINTED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. 'm' - METRES

SOURCE(S):
 1. HISTORICAL AIR PHOTOGRAPH, 2011

LEGEND

- PROPERTY LINE
- PROPOSED PHASE II ESA STUDY AREA
- DELINEATED PLUME
- PROPOSED BOREHOLE (LOWEST INTEREST)
- PROPOSED BOREHOLE (MODERATE INTEREST)
- PROPOSED BOREHOLE (HIGHEST INTEREST)



	Client/Location		Title	
	CITY OF OTTAWA 250 CITY CENTRE AVENUE OTTAWA, ONTARIO		PROPOSED BOREHOLE LOCATIONS	
	Project No:	07103	File No.:	07103-250CC-PMW-1
	Date:	MARCH 2013	Drawn by:	RPT
Drawn:	EV	Verified:	EV	Project Manager:
				Drawn by:
				FIGURE 2

C-726112168696



Ministry of the Environment

Well Tag No. (Place Sticker and/or Print Below)

Tag#: A156314 A156314

S-14709

Well Record

Regulation 903 Ontario Water Resources Act

Page of

Measurements recorded in: Metric Imperial

Well Owner's information

Well Owner's information fields: Name (Kajan Properties LTD), E-mail Address, Well Constructed by Well Owner, Mailing Address (105-310 North Queen St), Municipality (ETobicoke), Province (ON), Postal Code (M9C5K4), Telephone No.

Well Location

Well Location fields: Address of Well Location (1130 Albion Rd), Township, Lot, Concession, County/District/Municipality (Toronto), City/Town/Village (Toronto), Province (Ontario), Postal Code.

UTM Coordinates fields: Zone, Easting, Northing, Municipal Plan and Sublot Number, Other (WKQ-006397)

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Rows include Top Soil, Soft, Dense.

Annular Space table with columns: Depth Set at (m/ft) From, To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Rows include Sand, Benseal, Flush-mount/concrete.

Method of Construction and Well Use checkboxes: Cable Tool, Rotary (Conventional/Reverse), Boring, Air percussion, Diamond, Jetting, Driving, Digging, Direct Push, Public, Domestic, Livestock, Irrigation, Industrial, Commercial, Municipal, Test Hole, Cooling & Air Conditioning, Not used, Dewatering, Monitoring.

Construction Record - Casing table with columns: Inside Diameter (cm/in), Open Hole OR Material (Galvanized, Fiberglass, Concrete, Plastic, Steel), Well Thickness (cm/in), Depth (m/ft) From, To, Status of Well (Water Supply, Replacemnt Well, Test Hole, Recharge Well, Dewatering Well, Observation and/or Monitoring Hole, Abandonment, Insufficient Supply, Abandoned, Poor Water Quality, Abandoned, other, specify).

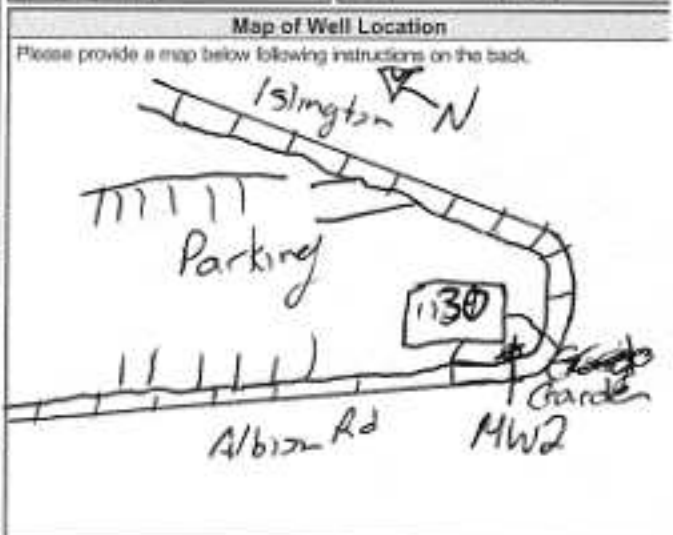
Construction Record - Screen table with columns: Outside Diameter (cm/in), Material (Plastic, Galvanized, Steel), Slot No., Depth (m/ft) From, To, Status of Well.

Water Details and Hole Diameter tables. Water found at Depth (m/ft), Kind of Water (Fresh, Untested, Gas, Other, specify). Hole Diameter (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician information fields: Business Name of Well Contractor (Strata Soil Sampling Inc.), Well Contractor's Licence No. (7241), Business Address (147-2 West Beaver Creek Road, Richmond Hill), Municipality, Province (Ontario), Postal Code (L4B 1C6), Business E-mail Address (wrecords@stratasoil.com).

Well Technician's Licence No. (3448), Name of Well Technician (Last Name, First Name) (Muir, M, K), Date Submitted (2013/11/15), Signature of Technician and/or Contractor.

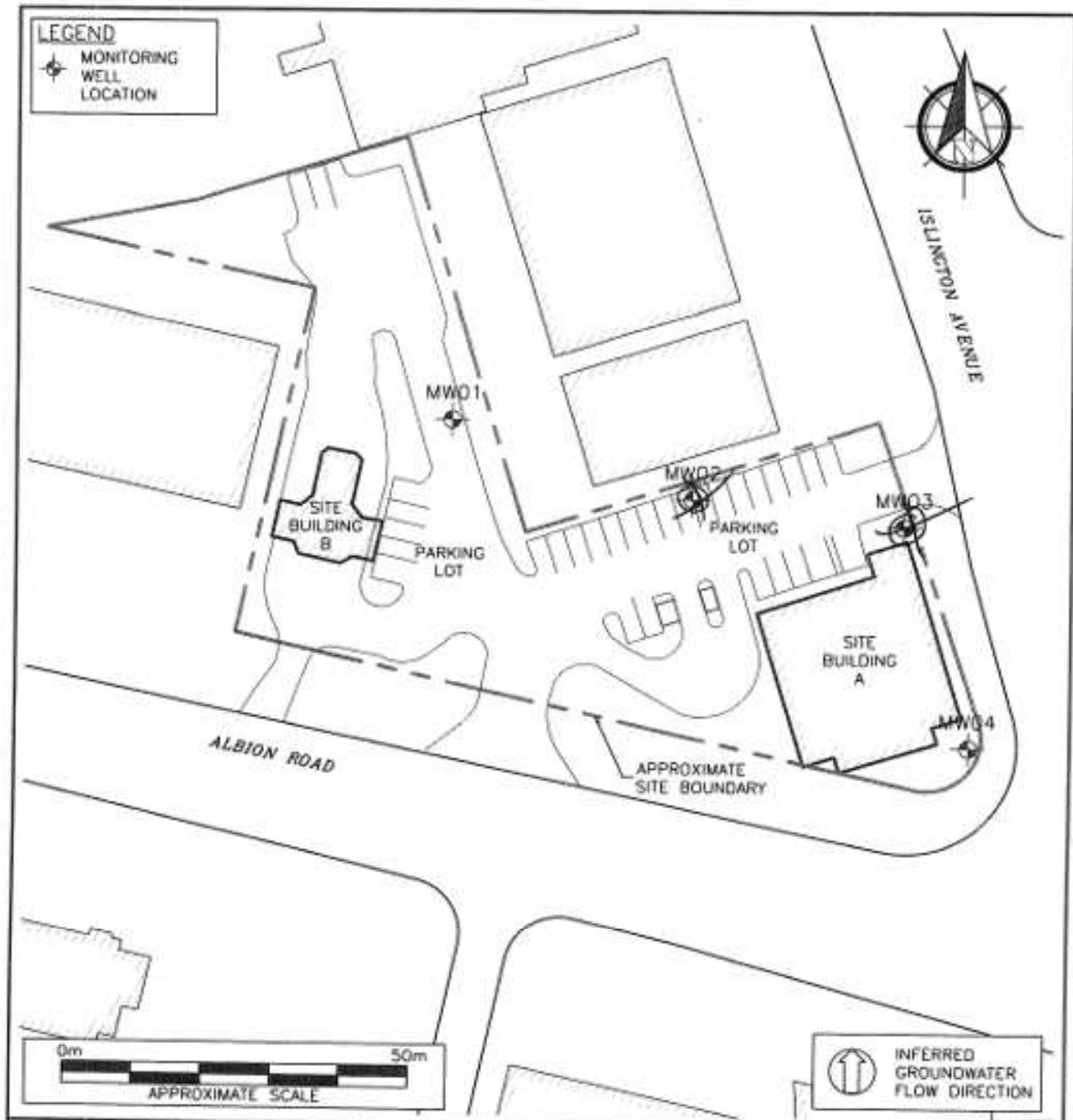
Results of Well Yield Testing table with columns: Draw Down (Time (min), Water Level (m/ft)), Recovery (Time (min), Water Level (m/ft)). Rows include Pump intake set at (m/ft), Pumping rate (l/min / GPM), Duration of pumping (hrs = min), First water level end of pumping (m/ft), If flowing give rate (l/min / GPM), Recommended pump depth (m/ft), Recommended pump rate (l/min / GPM), Well production (l/min / GPM), Disinfected? (Yes/No).



Comments: General contractor: Pinchin Environmental

Well owner's information package delivered (Yes/No), Date Package Delivered, Date Work Completed (2013/10/17), Ministry Use Only (Audit No. 2179867, NOV 28 2013).

S-14709



	PROJECT NAME			FIGURE NO.
	PHASE II ENVIRONMENTAL SITE ASSESSMENT			
	CLIENT NAME			
	KAYLAN PROPERTIES LIMITED			
	PROJECT LOCATION			
1104-1130 ALBION ROAD, TORONTO, ONTARIO				
FIGURE NAME			2	
MONITORING WELL LOCATION PLAN				
APPROXIMATE SCALE	PROJECT NO.	DATE		
AS SHOWN	88085	OCT. 2013		

Handwritten: CALL 2791867

APPENDIX 3

QUALIFICATIONS OF ASSESSORS

Daniel J. Arnott,
P.Eng.

POSITION

Environmental Engineer

EDUCATION

University of Waterloo, B.A.Sc., 2008
Honours Environmental Engineering

MEMBERSHIPS

Professional Engineers of Ontario
International Association of Hydrogeologists, Canadian National Chapter
Ottawa Geotechnical Group

EXPERIENCE

2010 to Present:

Paterson Group Inc.

Consulting Engineers – Ottawa, ON
Geotechnical and Environmental Division
Environmental Engineer

2006 (Co-operative Work Terms), 2008 to 2010

Jagger Hims Limited (acquired by GENIVAR in 2009, now WSP Services)

Environmental Consulting Engineers – Collingwood and Ottawa, ON
Project Manager – Environment and Hydrogeology

2007 (Co-operative Work Term)

SNC-Lavalin Environment Inc. (formerly Aqua Terre Solutions Inc.)

Environmental Consulting Engineers – Calgary, AB
Field Technician – Environmental Division

SELECT LIST OF PROJECTS

Remediation supervision and RSC application – Cotton Mill development, Cornwall, ON
Remediation supervision – former bulk fuel terminal, Hunt Club Road, Ottawa, ON
Remediation and supervision – high-rise development, Elgin Street, Ottawa, ON
Groundwater monitoring reports – existing landfill site, Mattawa, ON
Hydrogeological testing - LRT project, Ottawa, Ontario
Permit To Take Water application - Lansdowne Park redevelopment, Ottawa, ON
Soil vapour sampling program – commercial site, Ottawa, ON
Phase I & II ESA and remediation supervision – former rail lands, Ottawa, ON
Groundwater monitoring and construction inspection – landfill site, Elmvale, ON
Monitoring and sampling at active and closed landfill sites – Niagara Region, ON
Groundwater monitoring program, Sir Adam Beck 3 Tunnel – Niagara Falls, ON
Phase II ESA and assessment of remedial alternatives – Morrisburg, ON
Hydrogeological Study – proposed quarry expansion, Duntroon, ON
Pump tests and packer testing, proposed quarry – Dufferin County, ON

Phase I and II ESAs – various locations, Alberta and eastern Ontario
Soil and groundwater remediation programs – various locations, Alberta and Ontario
Permits To Take Water – various locations, eastern and southwestern Ontario
Aggregate Inventory and Hydrogeological Studies – various locations, northern Ontario
Transportation Environmental Study Reports - various projects throughout Ontario

Environmental
Engineering

Geotechnical
Engineering

Materials Testing
Quality Control

Building Sciences

Hydrogeology

Archaeological
Services

POSITION

Associate and Supervisor of the Environmental Division
Senior Environmental/Geotechnical Engineer

EDUCATION

Queen's University, B.A.Sc.Eng, 1991
Geotechnical / Geological Engineering

MEMBERSHIPS

Ottawa Geotechnical Group
Professional Engineers of Ontario
Consulting Engineers of Ontario

EXPERIENCE

1991 to Present
Paterson Group Inc.
Associate and Senior Environmental/Geotechnical Engineer
Environmental and Geotechnical Division
Supervisor of the Environmental Division

SELECT LIST OF PROJECTS

Mary River Exploration Mine Site - Northern Baffin Island
Rideau Centre Expansion project - Ottawa
Agricultural Supply Facilities - Eastern Ontario
Laboratory Facility – Edmonton (Alberta)
Ottawa International Airport - Contaminant Migration Study - Ottawa
Investigation and Remediation – Cotton Mill Redevelopment, Cornwall
Billings Hurdman Interconnect - Ottawa
Bank Street Reconstruction - Ottawa
Environmental Review – Various Laboratories across Canada - CFIA
Dwyer Hill Training Centre – Ottawa
Nortel Networks Environmental Monitoring - Carling Campus – Ottawa
Remediation Program - Block D Lands – Kingston
Investigation of former landfill sites – City of Ottawa
Record of Site Condition for Railway Lands – North Bay
Assessment and Remediation - North Bay Airport
Commercial Properties – Guelph and Brampton
Brownfields Remediation – Alcan Site - Kingston
PWGSC Building – 90 Elgin Street - Ottawa
Remediation Program - Ottawa Train Yards
MHLH Facility – CFB Petawawa
Ottawa Congress Centre
Lansdowne Park Redevelopment - Ottawa

**Environmental
Engineering**

**Geotechnical
Engineering**

**Materials Testing
Quality Control**

Building Science

Hydrogeology

**Archaeological
Services**