



July 7, 2020
Project Number: 200413

Mr. Michel Lapensée
Gestion FRAMI
1085, boulevard de la Carrière
Gatineau, Québec, J8Y 6V4

**Re: Phase II Environmental Site Assessment
3493, 3497 and 3499 Innes Road, Ottawa, Ontario**

Dear Mr. Lapensée:

BluMetric Environmental Inc. (BluMetric™) was retained by Gestion FRAMI to complete a Phase II Environmental Site Assessment (ESA) at 3493, 3497 and 3499 Innes Road, Ottawa, Ontario (herein referred to as the “Phase II Property”). The work was completed in accordance with the BluMetric work plan dated May 6, 2020. The Phase II ESA was completed to the Canadian Standards Association (CSA) Z769-00 standard and to meet the environmental due diligence requirements of your financial institution.

BACKGROUND

The Phase II Property is located on the north side of Innes Road approximately 600 m east of Orleans Boulevard. The property has a total area of approximately 1.51 acres of which 0.62 acres corresponds with 3493 Innes Road, 0.44 acres corresponds with 3497 Innes Road, and the remaining 0.44 acres corresponds with 3499 Innes Road. The Phase II Property is irregular in shape with frontage of approximately 91 m along the north side of Innes Road and with a depth of approximately 61 m. A portion of the western part of the Phase II Property (3493 Innes Road) extends for a 41 m (approximate) length behind the commercial plaza located at 3469 Innes Road. The commercial plaza at 3469 Innes Road is the location of an Ultramar petroleum fuels service station. A site plan is provided as Figure 1.

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BluMetric Environmental Inc.
3108 Carp Road, PO Box 430, Ottawa, Ontario, Canada K0A 1L0

www.blumetric.ca



A Phase I ESA for 3493, 3497 and 3499 Innes Road was prepared by BluMetric (Dated 26 June 2020). The storage and dispensing of fuels at the 3469 Innes Road property was identified in the Phase I ESA report as a potentially contaminating activity (PCA) in the Phase I Study Area. A minor spill (50 Litres) of engine oil was also identified for this location. Due to the fuel pumps and underground storage tanks (USTs) for the Ultramar service station being within 40 m of the Phase I Property, the PCA was considered an area of potential environmental concern (APEC) for the 3493, 3497 and 3499 Innes Road property. No other APECs were identified with respect to the Phase I Property. The BluMetric Phase I ESA report recommended the completion of a Phase II ESA to investigate for any potential subsurface environmental impact derived from the Ultramar petroleum fuels service station at 3469 Innes Road.

The contaminants of potential concern associated with the 3469 Innes Road PCA/APEC include petroleum hydrocarbons (PHCs in the F1 to F4 fractions), and benzene, toluene, ethylbenzene and xylenes (BTEX). These constituents of gasoline, diesel fuels and motor oil have the potential to migrate laterally through soil and groundwater on to the Phase II Property.

The findings from a Phase II ESA investigation at 3493, 3497 and 3499 Innes Road are provided as follows.

SITE CONDITION STANDARDS SELECTION

Generic standards for soil and groundwater quality are prescribed through Ontario Regulation (O.Reg. 153/04, as amended). Selection of appropriate site condition standards (SCS) for comparison to soil and groundwater quality at the Phase II Property was based on the following:

- The Phase II Property is currently zoned as R1 - Residential First Density Zone. 'Residential/Parkland/Institutional Property Use' represents the most sensitive potential use of the Phase II Property.
- The Phase II Property is considered a 'Shallow Soil Property' as the bedrock was encountered at less than 2 m depth during the investigation.
- The Phase II Property is in a 'Non-Potable Ground Water Condition' as the Phase II Property and neighbouring properties within 250 metres are not serviced by drinking water supply wells (subject to municipal approval).
- The Phase II Property is not located within 30 m of a permanent water body.

Based on site conditions, the following SCS as provided in the Ministry of the Environment, Conservation and Park (MECP) “Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act, April 15, 2011” were considered appropriate for comparison to the soil and groundwater quality sampling program:

- Table 7 - Generic Site Condition Standards for Shallow Soils in a Non-Potable Ground Water Condition
 - Residential/Parkland/Institutional Property Use
 - Coarse textured soils (Note: selected based on being the most conservative standards)

METHODOLOGY

All field investigation and media sampling conducted by BluMetric followed the general protocols outlined in the MECP “Guidance on Sampling and Analytical Methods for Use at Contaminated Sites in Ontario, June 1996 and addenda.” Prior to completing the subsurface investigation activities all investigation areas were cleared for subsurface and overhead utilities by USL-1 Underground Service Locators Inc. of Ottawa, Ontario. A copy of the clearances is attached as Appendix A.

The subsurface investigation program was conducted on June 19, 2020 and included overburden and bedrock drilling at two locations along the western boundary of the Phase II Property. Borehole/monitoring well location MW1 was installed at a central location along the west property boundary and borehole/monitoring well MW2 was installed at the closest proximity (approximately 40 m northwest) to the Ultramar fuel pumps and USTs. Drilling services were provided by Strata Drilling Group of Ottawa, Ontario.

The final locations for the two boreholes (MW1 and MW2) as indicated on Figure 1 were confirmed based on the clearance of underground and overhead utilities and on access with the drilling equipment. Each borehole was advanced through the overburden to top of bedrock at depths of 1.14 m below ground surface (mbgs) at MW1 and 0.86 m bgs at MW2. A 1.5 m long by 0.05 m diameter continuous soil sampler was used for sampling of overburden materials. Upon reaching bedrock each borehole was advanced into bedrock by tri-cone drilling methods to a total depth of 7.6 m.

Subsurface soil and bedrock conditions for each borehole location were logged. Field screening of soil samples was conducted with an RKI Eagle combustible gas detector (CGD) and the visual and olfactory characteristics of the soil samples were logged. One soil sample from each borehole location was selected for laboratory analysis based on the field screening results and observed subsurface conditions. Laboratory analyses included PHC F1-F4 fractions and BTEX. Samples for PHC F1/BTEX analysis were collected using field preservation methods with methanol. All collected soil samples were immediately placed in a cooler containing ice to ensure the sample temperature was maintained near 4°C. Samples were submitted to Paracel Laboratories of Ottawa, Ontario under strict chain of custody protocol.

Both boreholes were instrumented as monitoring wells (MW1 and MW2) and were constructed using new 50 mm inside diameter flush threaded schedule 40 PVC standpipe and well screen. Wells were assembled on site and included a 3.0 m long 10-slot well screen. Silica sand (#3) was placed as a filter pack around the well screen and extending approximately 0.5 m above the well screen. Bentonite clay chips (0.43 mm to 0.95 mm in diameter) were used to install a minimum 0.6 m seal in the annular space above the sand pack interval. The remainder of the borehole was backfilled with drill cuttings which had no discernible evidence of environmental impact. The relative elevation of both monitoring wells was surveyed using a survey level. Monitoring well instrumentation details are provided in the borehole logs in Appendix C.

On both June 19, 2020 and June 23, 2020, both monitoring wells were purged to ensure that groundwater at the well was representative of subsurface conditions. Prior to groundwater sampling on June 25, 2020, the static groundwater levels were recorded and a Solinst® electronic oil/water interface meter was utilized to assess depth/thickness of measurable free product if present. The oil/water interface probe was cleaned and rinsed with a mixture of detergent and distilled water between each well to prevent any potential cross contamination. Combustible vapour readings were also recorded at approximately 0.5 m depth within each monitoring well standpipe using an RKI Eagle 2 Combustible Gas Detector (CGD) operated in methane elimination mode and calibrated prior to use. The combustible vapour readings for June 25, 2020 are included in Table 1. Disposable powder-free nitrile gloves were worn at all times during ground water purging and sampling activities and a new pair of gloves was donned at each monitoring well to prevent cross contamination.

Groundwater sampling for monitoring well MW1 was conducted using the 'U.S. EPA Region 1 Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. Revised: September 19, 2017' to minimize sediment disturbance during sample collection and laboratory analysis. Dedicated ¼ inch outside diameter (OD) LDPE sample tubing was used in conjunction with a peristaltic pump and a short section of dedicated ¼

inch inside diameter (ID) silicone tubing for the pump head. The outlet from the peristaltic pump was connected to an in-line flow-through cell system for monitoring select geochemical groundwater parameters using a YSI Pro Plus multi-parameter meter. The YSI Pro Plus multi-parameter meter was calibrated prior to use.

Due to a low well yield for MW2, sampling on June 25, 2020 was conducted by no-purge sampling methods (Note: the well was pumped dry on June 23, 2020, two days prior to sampling) using new 1/2" low density polyethylene tubing fitted with an inertial-lift foot valve.

All groundwater samples were collected in clean, laboratory supplied sample bottles and placed in a cooler at approximately 4°C for transport to the lab. Sample bottles were separated from each other using a combination of bubble wrap and plastic bags to prevent any potential cross-contamination within the cooler during transport. Samples were submitted to Paracel Laboratories of Ottawa, Ontario for PHC F1-F4 fractions and BTEX analyses.

OBSERVATIONS AND RESULTS

A Site Plan showing the locations of the boreholes/monitoring wells completed on June 19, 2020 is attached as Figure 1. Borehole logs can be found in Appendix B. Photographs of the drilling program are provided in Appendix C.

Soil Sampling

Soil encountered within the boreholes included silt overlying clay at MW1 and fine sand overlying silt at MW2. Bedrock was encountered at 1.14 m depth at MW1 and at 0.86 m depth at MW2. At both borehole locations a continuous soil sampler was advanced to bedrock refusal. No visual or olfactory indications of environmental impact for soil (i.e.: no staining or odours) were noted for soils at both borehole locations. The highest soil combustible vapour headspace reading was 20 ppm, obtained for soil sample MW2 S1, obtained directly overlying the bedrock. This combustible vapour reading is at the detection limit of the instrument and not considered indicative of a soil impact. Combustible vapour readings for all other soil samples were below the detection limit of the instrument. Soil sample depth intervals and field combustible detector headspace readings are indicated on the borehole logs in Appendix B.

Two soil samples were submitted for laboratory analysis: MW1 S1, and MW2 S1. Soil laboratory results are provided in Table 2 in comparison to the applicable O.Reg. 153/04 Table 7 SCS. All laboratory certificates of analyses are included in Appendix D.

All results for soil samples MW1 S1 and MW2 S1 were below the laboratory detection limits for the parameters tested. Consequently, measured concentrations for the soil samples analysed are below the O. Reg. 153/04 Table 7 SCS for coarse textured soils in an area of Residential/Parkland/Institutional Property Use.

Groundwater Monitoring and Sampling

Static ground water level measurements were taken in all monitoring wells on June 25, 2020. Static water level measurement elevation data is provided in Table 1, shown on Figure 1, and included on the borehole logs in Appendix B. The water level observations place the static water table within the limestone bedrock. For both well locations, soft bedrock seams with no groundwater evident were encountered up to 6.0 m depth. Groundwater was only evident during drilling within the bottom 1.5 m of both boreholes. The static water elevation data on Figure 2 indicates that a higher static groundwater elevation at MW1 (95.82 m) compared to MW2 (95.42). Since MW2 is located further to the west on the Phase II Property, the measured static groundwater elevations indicate that the majority of the 3493, 3497 and 3499 Innes Road property is potentially located up gradient or side gradient to groundwater flow leaving the 3469 Innes Road property.

No visual or olfactory evidence of groundwater impacts were noted during groundwater purging/sampling of both MW1 and MW2. No free product was detected by the Solinst® electronic oil/water interface meter for both locations. As indicated in Table 1 and in the borehole logs in Appendix B, the June 25, 2020 static groundwater level for MW2 was located within the monitoring well screen interval. The static groundwater level for MW1 was located above the screen interval but within the sand pack interval.

Laboratory analytical results in comparison to the O.Reg. 153/04 Table 7 SCS for groundwater are summarized in Table 3. All laboratory certificates of analyses are included in Appendix D. The laboratory results associated with the two submitted groundwater samples for June 25, 2020 (MW1, and MW2) were below the laboratory detection limits for all tested PHC and BTEX parameters. Consequently, groundwater quality at both monitoring well locations meets the O.Reg. 153/04 Table 7 SCS for non-potable groundwater for the parameters tested.

DISCUSSION OF RESULTS

Results of the Phase II ESA investigation did not identify any evidence of soil or groundwater quality impacts exceeding the applicable O.Reg. 153/04 Table 7 SCS.

SUMMARY AND CONCLUSIONS

BluMetric Environmental Inc. (BluMetric) was retained by Gestion FRAMI to complete a Phase II Environmental Site Assessment (ESA) at 3493, 3497 and 3499 Innes Road, Ottawa, Ontario. The BluMetric Phase I ESA report, dated 26 June 2020, recommended the completion of a Phase II ESA to investigate for any potential subsurface environmental impact derived from the Ultramar petroleum fuels service station at 3469 Innes Road. The objective of the work program was to investigate subsurface environmental conditions and document soil and groundwater quality conditions in comparison to the applicable environmental quality standards, updated in July 2011 under O.Reg. 153/04.

Two boreholes were advanced through soil overburden and limestone bedrock and completed as monitoring wells on June 19, 2020. The laboratory results for all soil samples analysed meet the applicable O.Reg. 153/04 Table 7 SCS for coarse textured soils in an area of Residential/Parkland/Institutional Property Use for the contaminants of concern (PHCs and BTEX). Groundwater was sampled for the two monitoring wells on June 25, 2020. The laboratory analytical results for the groundwater samples were below the laboratory detection limits for all tested PHC and BTEX parameters. Consequently, groundwater quality at both monitoring well locations meets the O.Reg. 153/04 Table 7 SCS for non-potable groundwater for the parameters tested.

The static water elevation data collected on June 25, 2020 indicates that a higher static groundwater elevation at MW1 (95.82 m) compared to MW2 (95.42). Since MW2 is located further to the west on the Phase II Property, the measured static groundwater elevations indicate that the majority of the 3493, 3497 and 3499 Innes Road property may be located up gradient or side gradient to groundwater flow leaving the 3469 Innes Road property.

Based on the field observations and the laboratory results no further subsurface investigation is deemed necessary. It is recommended that the monitoring wells be maintained for future groundwater sampling events as required for environmental due diligence and municipal approval requirements. If the wells are not to be maintained for future use, the wells must be properly sealed and abandoned per the requirements of O.Reg. 903.

LIMITING CONDITIONS

The conclusions presented in this report represent our professional opinion and are based on the conditions observed on the dates set out in the report, the information available at the time this report was prepared, the scope of work, and any limiting conditions noted herein. BluMetric provides no assurances regarding changes to conditions subsequent to the time of the assessment. BluMetric makes no warranty as to the accuracy or completeness of the information provided by others or of the conclusions and recommendations predicated on the accuracy of that information.

This report has been prepared for Gestion FRAMI. Any use a third party makes of this report, any reliance on the report, or decisions based upon the report, are the responsibility of those third parties unless authorization is received from BluMetric Environmental Inc. in writing. BluMetric Environmental Inc. accepts no responsibility for any loss or damages suffered by any unauthorized third party as a result of decisions made or actions taken based on this report.

Should you have any questions regarding this report or require more information, please do not hesitate to contact the undersigned at (613) 839-3053.

Respectfully submitted,
BluMetric Environmental Inc.





Robert Hillier, B.Sc. P.Geo.
Senior Hydrogeologist

- Encl. Figure 1 - Site Plan
- Table 1 - Static Groundwater Level Measurements
- Table 2 - Soil Analytical Results
- Table 3 - Groundwater Analytical Results
- Appendix A - Subsurface Utility Clearances
- Appendix B – Borehole Logs
- Appendix C – Photo Log
- Appendix D - Laboratory Certificates of Analysis

Ref: 200413 3493 3497 and 3499 Innes Road Phase II ESA-July 7-20.docx

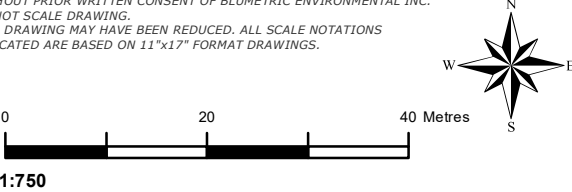


LEGEND

-  Monitoring Well Location
- 95.82** Static Water Level Elevation (m) on June 25, 2020
-  Property Outline

1				
REV.	DESCRIPTION	YY/MM/DD	BY	CHK

REFERENCES
 PROPRIETARY INFORMATION MAY NOT BE REPRODUCED OR DIVULGED WITHOUT PRIOR WRITTEN CONSENT OF BLUMETRIC ENVIRONMENTAL INC. DO NOT SCALE DRAWING. THIS DRAWING MAY HAVE BEEN REDUCED. ALL SCALE NOTATIONS INDICATED ARE BASED ON 11"x17" FORMAT DRAWINGS.



CLIENT

Gestion FRAMI
 1085 Boulevard de la Carriere
 Gatineau, Quebec, J9Y 6V4

PROJECT

Phase II Environmental Site Assessment
 3493, 3497 and 3499 Innes Road
 Ottawa, ON, K1C1T1

TITLE

Site Plan



3108 Carp Road PO Box 430
 Ottawa, Ontario K0A 1L0
 TEL: (613) 839-3053
 FAX: (613) 839-5376
 Email: info@blumetric.ca
 Web: http://www.blumetric.ca

PROJECT # 200413		DATE July 03, 2020	
DRAWN GM	CHECKED JF	FIG NO. 01	REV 0

TABLE 1: Static Groundwater Level Measurements
Project: 200413
3493, 3497 and 3499 Innes Road, Ottawa, Ontario

Well ID	Top of PVC Elev. (masl)	Ground Surface Elev. (masl)	Top of Screen Elev. (masl)	Bottom of Screen Elev. (masl)	Date	Water Depth (mbTPVC)	Water Level Elev. (m asl)
MW1	99.92	100.02	95.45	92.40	23-Jun-20	N/A	--
					25-Jun-20	4.10	95.82
MW2	100.62	100.72	96.15	93.10	23-Jun-20	5.12	95.50
					25-Jun-20	5.13	95.49

Notes:

Benchmark elevation - 100.00 m for MW1 Top of manhole cover

N/A - not applicable/not measured

masl - metres above sea level

mbTPVC - metres below top of PVC

TABLE 2 - Soil Analytical Results

Project: 200413

3493, 3497 and 3499 Innes Road, Ottawa, Ontario

Parameter	Units	MDL	Regulation*	Sample	
				MW1 S1	MW2 S1
Sample Depth (m)				0.30 to 0.80	0.61 to 0.86
Sample Date (m/d/y)			Reg 153/04 (2011)-Table 7 Residential, coarse	6/19/2020 8:50	6/19/2020 12:45
<i>Volatiles</i>					
Benzene	ug/g dry	0.02	0.21 ug/g dry	ND (0.02)	ND (0.02)
Ethylbenzene	ug/g dry	0.05	2 ug/g dry	ND (0.05)	ND (0.05)
Toluene	ug/g dry	0.05	2.3 ug/g dry	ND (0.05)	ND (0.05)
m/p-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)
o-Xylene	ug/g dry	0.05		ND (0.05)	ND (0.05)
Xylenes, total	ug/g dry	0.05	3.1 ug/g dry	ND (0.05)	ND (0.05)
<i>Hydrocarbons</i>					
F1 PHCs (C6-C10)	ug/g dry	7	55 ug/g dry	ND (7)	ND (7)
F2 PHCs (C10-C16)	ug/g dry	4	98 ug/g dry	ND (4)	ND (4)
F3 PHCs (C16-C34)	ug/g dry	8	300 ug/g dry	ND (8)	ND (8)
F4 PHCs (C34-C50)	ug/g dry	6	2800 ug/g dry	ND (6)	ND (6)

Notes:

* - "Soil, Ground Water and and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" March 9, 2004, amended as of July 1, 2011

MDL - laboratory method detection limit

ND - not detected, below indicated laboratory method detection limit

TABLE 3 - Groundwater Analytical Results
Project: 200413
3493, 3497 and 3499 Innes Road, Ottawa, Ontario

Parameter	Units	MDL	Regulation*	Sample	
				MW1	MW2
Sample Date (m/d/y)			Reg 153/04 (2011)-Table 7 Non-Potable Groundwater, coarse	06/25/2020 02:35 PM	06/25/2020 02:00 PM
<i>BTEX</i>					
Benzene	ug/L	0.5	0.5 ug/L	ND (0.5)	ND (0.5)
Ethylbenzene	ug/L	0.5	54 ug/L	ND (0.5)	ND (0.5)
Toluene	ug/L	0.5	320 ug/L	ND (0.5)	ND (0.5)
m/p-Xylene	ug/L	0.5		ND (0.5)	ND (0.5)
o-Xylene	ug/L	0.5		ND (0.5)	ND (0.5)
Xylenes, total	ug/L	0.5	72 ug/L	ND (0.5)	ND (0.5)
<i>Hydrocarbons</i>					
F1 PHCs (C6-C10)	ug/L	25	420 ug/L	ND (25)	ND (25)
F2 PHCs (C10-C16)	ug/L	100	150 ug/L	ND (100)	ND (100)
F3 PHCs (C16-C34)	ug/L	100	500 ug/L	ND (100)	ND (100)
F4 PHCs (C34-C50)	ug/L	100	500 ug/L	ND (100)	ND (100)

Notes:

* - "Soil, Ground Water and and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act" March 9, 2004, amended as of July 1, 2011

MDL - laboratory method detection limit

ND - not detected, below indicated laboratory method detection limit

APPENDIX A

Subsurface Utility Clearances

USL1

UNDERGROUND ● SERVICE LOCATORS INC.

USL-1 UNDERGROUND SERVICE LOCATORS INC.

100 - 1704 CARLING AVE. - OTTAWA, ON - K2H 1H3

613-226-8750 - WWW.USL-1.COM

COVER SHEET

DATE: JUNE 11/20

TO: ROBERTT -

RE: 3493 JONES RD.

PAGES (INCLUDING COVER): 18

FROM: MATT MOREAU

613-218-7751 - MATTM@USL-1.COM

IF YOU DID NOT RECEIVE ALL OF THE PAGES FOR THIS REPORT, OR IF ANY PART OF IT IS UNCLEAR, PLEASE CONTACT ME. THANK YOU AND HAVE A GREAT DAY!



UNDERGROUND SERVICE LOCATORS INC.

DATE: JUNE 11/20

CLIENT: BLUNESTIC JOB LOCATION: 3493 INNES RD. WORK TYPE: BHS

PUBLIC UTILITY LOCATE REPORT

	UTILITY	LOCATED BY	MARKED / CLEAR
①	BELL, GAS, HYDRO	PROMARK	CLEAR -
②	WATER, SEWER	CITY/TOWNSHIP	CLEAR -
③	STREET LIGHTS	BLACK & MAC	CLEAR -
④	TRAFFIC	CITY	CLEAR -

*UTILITIES MARKED AROUND STRIP MALL & NEAR INNES. NOT IN CONFLICT W/ BHS

PRIVATE UTILITY LOCATE REPORT

UTILITY	MARKED / CLEAR or N/A	UTILITY	MARKED / CLEAR or N/A
HYDRO	CLEAR	WATER	CLEAR
ELECTRICAL	↓	STORM SEWER	↓
COMMUNICATIONS		SANITARY SEWER	
F.O.C.		STEAM	N/A
GAS		TUNNELS	N/A

AS-BUILT OR UTILITY PLANS PROVIDED? YES / (NO) WORK AREA MARKED? (YES) / NO

Locates

From: solutions@on1call.com
Sent: Wednesday, June 3, 2020 4:20 AM
To: Locates
Subject: Request 2020234105



LOCATE REQUEST CONFIRMATION

TICKET #:
2020234105

REQUEST PRIORITY:
STANDARD

REQUEST TYPE: REGULAR

WORK TO BEGIN DATE:
06/10/2020

Update of Ticket # **Project #**

Transmit date: 06/03/2020
04:19:24 AM

REQUESTOR'S CONTACT INFORMATION

Contractor ID#: 202	Company Phone #: (613) 226-8750
Contact Name: Sara Staniszewski	Cell #:
Alternate Contact Name: JACQUES DESJARDINS	Fax #: (613) 226-8677
Company name: U S L	Email: locates@usl-1.com
Address: 1704 Carling	Alternate Contact #:

DIG INFORMATION

Region/County: OTTAWA	Type of work: BORE HOLES	Mark & Fax: NO
Community:	Max Depth: 100.00 FT	Area is not marked: NO
City: OTTAWA	Machine Dig: YES	Area is marked: YES
Address: 3493, INNES RD	Hand Dig: NO	Site Meet Req.: NO
Intersecting Street 1: LAMARCHE AVE	Directional Drilling: NO	Work being done for: Blumetric
Intersecting Street 2: PAGE RD	Public Property: YES	
	Private Property: YES	

DETAILED DESCRIPTION OF WORK

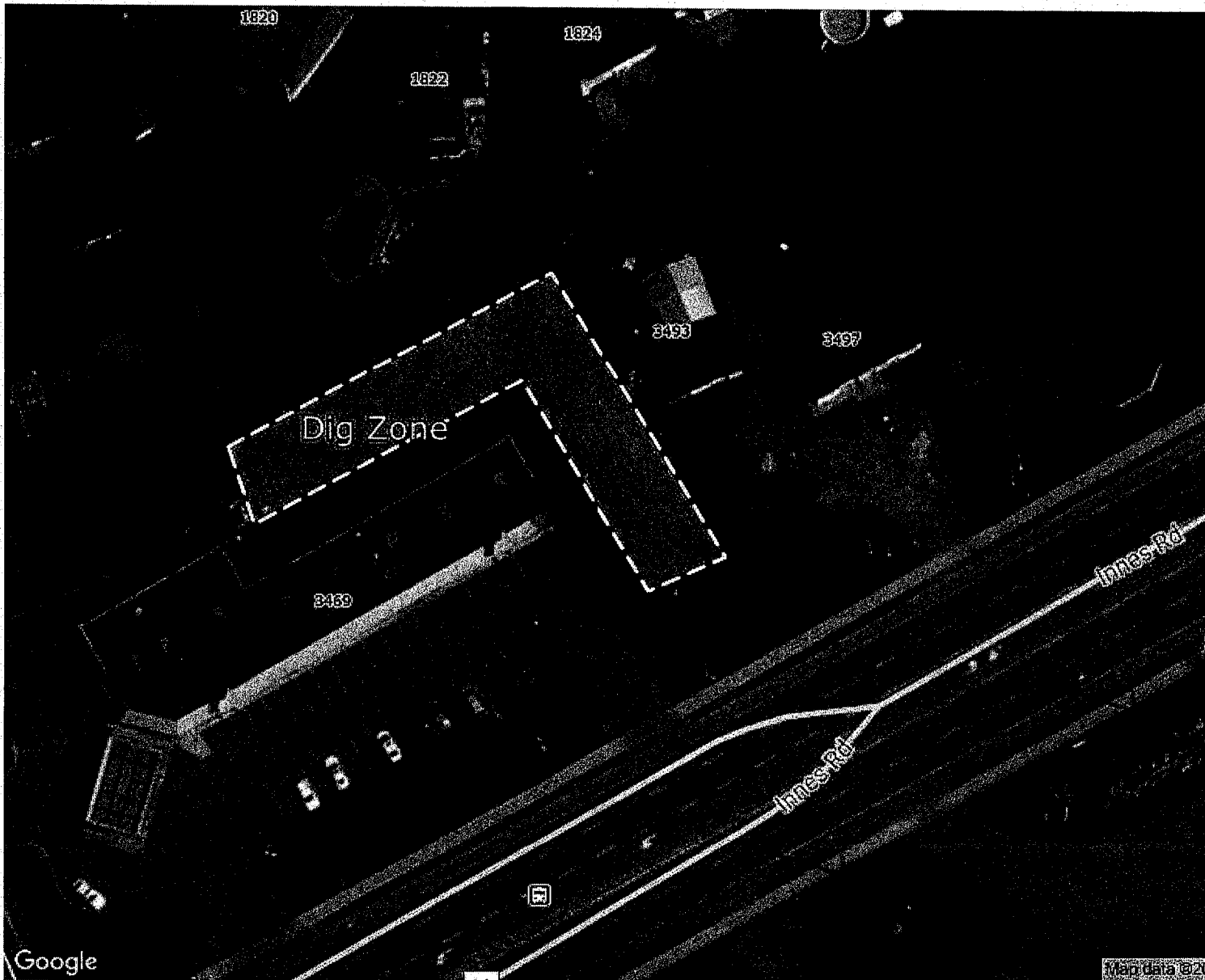
REMARKS

CORLOT=U Clear from the interior property/ fence corner, to 35m south, 40m west, and to 10m north and east of fence as shown on plan provided. Boreholes marked on site.

MEMBERS NOTIFIED: The following owners of underground infrastructure in the area of your excavation site have been notified.

Member name	Station Code	Initial Status
HYDRO OTTAWA (HOT1)	HOT1	Notification sent
PROMARK FOR ENBRIDGE GAS (ENOE01)	ENOE01	Notification sent
PROMARK FOR ENBRIDGE GAS (ENVMOE01)	ENVMOE01	Notification sent
CITY OF OTTAWA WATER/SEWER (OTWAWS01)	OTWAWS01	Notification sent
CITY OF OTTAWA TRAFFIC SIGNALS (OTWATS01)	OTWATS01	Notification sent
BLACK AND MC DONALD FOR CITY OF OTTAWA STREET LIGHTS (OTWASL01)	OTWASL01	Notification sent
PROMARK FOR BELL CANADA (BCOE01)	BCOE01	Notification sent

MAP SELECTION: Map Selection provided by the excavator through Ontario One Call's map tool or through agent interpretation by



IMPORTANT INFORMATION: Please read.

Defining "NC" - Non-Compliant

- Non-compliant members have not met their obligations under section 5 of the Ontario Underground Infrastructure Notification Act. ON1Call has notified these members to ensure they are aware of your excavation. In this circumstance, should the member not respond, the excavator should contact the member directly to obtain their locates or request a status. ON1Call will not be provided with a locate status from the member regarding this ticket and therefore, cannot provide further information at this time. For locate status contact information please refer to our website.

You have a valid locate when...

- You have reviewed your locate request information for accuracy. CONTACT Ontario One Call (ON1Call) IMMEDIATELY if changes are needed and obtain a corrected locate request confirmation.
- You have obtained locates or clearances from all ON1Call members listed in this ticket before beginning your dig.

You've met your obligations when...

- In addition to this locate request, you have DIRECTLY contacted all owners of infrastructure who ARE NOT current members of ON1Call (such as owned buried infrastructure on private property), as well as arranged for contract locates for your private lines on your private property - where applicable. For a list of locate status contacts visit www.on1call.com.
- You respect the marks and instructions provided by the locators and dig with care; the marks and locator instructions MUST MATCH.
- You have obtained any necessary permits from the municipality in which you are excavating.

What does "Cleared" mean in the "Initial Status" section?

1. The information that you have provided about your dig will not affect that member's underground infrastructure and they have provided you with a clearance, if anything about your excavation changes, please ensure that you update your ticket immediately.

What are the images under "Map Selection":

1. A drawing created by an excavator directly within Ontario One Call's web ticket tool, this is expected to be an accurate rendition of the dig site, and it is the excavator's responsibility to ensure the location matches the information they provide under the 'Dig Location' section OR;
2. A drawing created by an Ontario One Call agent, this drawing is based on a verbal description by phone of the area by the excavator. Agents may create drawings that are larger than the proposed dig to minimize risk of interpretation. It is the excavator's responsibility to review these map selections for accuracy. Changes can be made by the excavator through the web ticket tool, to learn how visit www.on1call.com/contractors.
3. All drawings dictate which members are notified.



Primary Locate Sheet

UNION GAS EMERGENCY #
1-877-969-0999

Fax: 613-723-9277

Toll free: 1-800-371-8866

Email:

Request #
2020234105
NORMAL

Utilities Located <input checked="" type="checkbox"/> Bell <input checked="" type="checkbox"/> Gas <input checked="" type="checkbox"/> Hydro Ottawa <input type="checkbox"/> Hydro One <input type="checkbox"/> Zayo <input type="checkbox"/> Videotron <input type="checkbox"/> Lakefront Utilities <input type="checkbox"/> Elexicon Energy		Revised Excavation Date mm/dd/yyyy	Excavation Date 06/10/2020 08:00:00 mm/dd/yyyy	Status STANDARD
Requested by: SARA STANISZEWSKI	Company: U S L	Phone: (613)-226-8750 ext.	Fax/email: (613)-226-8677 ext.	Homeowner <input type="checkbox"/> Contractor <input checked="" type="checkbox"/> Project <input type="checkbox"/>

Appt Date: mm/dd/yyyy	Received Date: 06/03/2020 mm/dd/yyyy	Locate Address: 3493, INNES RD 1st Inters.: LAMARCHE AVE 2nd Inters.: PAGE RD	
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Type of work: BORE HOLES	City: OTTAWA
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Caller's Remarks:
MACH. DIG
CORLOT=U CLEAR FROM THE INTERIOR PROPERTY/ FENCE CORNER, TO 35M SOUTH, 40M WEST, AND TO 10M NORTH AND EAST OF FENCE AS SHOWN ON PLAN PROVIDED. BOREHOLES MARKED ON SITE.

-75.526605, 45.447495, NB_SEGMENTS::1, NO_PLAN::, BCOE01, OTWASL01, OTWATS01, OTWAWS01, ENVMOE01, ENOE01, HOT1

Bell Mark Clear 1	Gas Mark Clear 1	Hydro Ottawa Mark Clear 1	Street Lighting Mark Clear	Lakefront Mark Clear	Hydro One Mark Clear	Zayo Mark Clear	Elexicon Energy Mark Clear	Videotron Mark Clear
-------------------------------	------------------------------	---------------------------------------	------------------------------	------------------------	------------------------	-------------------	------------------------------	------------------------

LOCATED AREA: EXCAVATOR SHALL NOT WORK OUTSIDE THE LOCATED AREA WITHOUT OBTAINING ANOTHER LOCATE.

Records Reference:
 ___ Map ___ Network X #
 ___ Byers Datapak:
 Field Notes: LAC Multiviewer
 Other: **GL203 6-0010-119**
 DPT Remarks:

___ Third Party Notification _____

*****DANGER DO NOT PROCEED*****
 BURIED HIGH VOLTAGE CABLES WITHIN THE
 LOCATED AREA. YOU MUST SEND LOCATE TO
HOLsupervisions@hydroottawa.com
 OR CONTACT HYDRO OTTAWA AT 613-738-6418
 FOR FURTHER INFORMATION
"EMERGENCY" NUMBER IS 613-738-0188

Apply Sticker Here if Required

Excavator shall notify & receive a clearance from Utility prior to excavation for the following: Telecon <input type="checkbox"/> High Priority Cable <input type="checkbox"/> Central Office Vicinity	Gas Material Type: <input type="checkbox"/> Steel(st) <input type="checkbox"/> Plastic(PE) <input type="checkbox"/> Copper(CO)
---	---

Method of Field Marking: Paint Stakes Flags Offset Flags Other (Telecom=Orange, Gas=Yellow, Hydro Ott. =Red)

Caution: Bell locate valid for life of excavation see attached document. Hydro One - Hydro Ottawa - Enbridge Gas - Lakefront Utilities - Elexicon Energy valid for 60 days, 360 valid for life of excavation. See disclaimer for Facility Owner Guidelines.

Caution: Any changes to location or nature of work require new locate. The Excavator must not work outside the Located Area without a new locate. Privately owned services within the located area have not been marked - check with service / property owner. For all Locate requests including remarks contact: Ontario One Call at **1-800-400-2255** or **www.on1call.com**

Locator Name: LAFLAMME ALAIN ID #: 1987 Date: JUNE 8 2020	Start Time: 10H End Time: 11H Total Hours: 1H	___ Mark & Fax ___ Left on Site <input checked="" type="checkbox"/> Emailed Print: _____ Signature: _____
--	--	--

A copy of this Primary Locate Sheet and Auxiliary Locate Sheet(s) must be on site and in the hands of the machine operator during work operations. If sketch and markings do not coincide, the Excavator must obtain a new locate.

Robert Hillier

From: Loveland, Nick <NickLoveland@hydroottawa.com>
Sent: Thursday, June 11, 2020 7:13 AM
To: Robert Hillier
Subject: RE: PROMARK TELECON OTT -- Ticket # 2020234105

Always ensure to hand dig or hydro vac within 1.5m of Hydro Ottawa locate markings. Please also ensure to hand dig or hydro vac within 1.5m of Hydro Ottawa equipment including but not limited to transformers, switch gear and manholes. If you expose any direct buried underground hydro cables during your excavation, contact me immediately.

Definitions:

Hand Dig means to excavate using a shovel with a wooden or insulated handle, not including picks, bars, stakes or other earth piercing devices.

Mechanical Excavation means boring or open cut excavation by means of mechanical excavating equipment such as powered excavator, earth mover, and earth piercing equipment including hand held augers, picks, bars, stakes or any other device that may damage any utility lines.

Initial Exposure:

At no time, with the exception of lifting asphalt but not underlying road base or underlying structure, should an excavator use mechanical excavation within 1.5m of Hydro Ottawa locates without first hand digging or hydro vac test holes to determine the exact centre line and depth of cover of the utility line.

Once exposed. Mechanical excavation must not be used closer than 0.3m in any direction of the utility line. All excavation within 0.3m must be done by hand or hydro vac.

As long as you understand and follow all of the instructions within this e-mail and on your locates. You are okay to proceed. If you have any questions or concerns, please let me know. Please ensure that a printed or electric copy of this email is on site with the crew as a part of the locate package.

Nick Loveland
Damage Prevention Inspector
Cell: 613-229-7290
nickloveland@hydroottawa.com

Hydro Ottawa Limited / Hydro Ottawa limitée
2711 Hunt Club Rd
Ottawa, Ontario K1G 3S4

www.hydroottawa.com

-----Original Message-----
From: HOL Supervisions
Sent: June-09-20 3:23 PM
To: Loveland, Nick

Subject: FW: PROMARK TELECON OTT -- Ticket # 2020234105

Record # : 50562

REQUEST#2020234105

Complete Civic Address : 3493 INNES RD

Contractor or Homeowner Name (highlight which one it is): CONTRACTOR-SARA STANISZEWSKI-USL Phone Number : 6132268750 AGENTS INITIALS: JD

-----Original Message-----

From: Locates [mailto:Locates@usl-1.com]

Sent: Tuesday, June 9, 2020 2:29 PM

To: HOL Supervisions

Cc: rhillier@blumetric.ca

Subject: FW: PROMARK TELECON OTT -- Ticket # 2020234105

CAUTION: EXTERNAL EMAIL

This email is NOT from an employee and originated from outside of Hydro Ottawa or its affiliates. You must exercise caution when handling. Please report any suspicious emails by clicking Report Email or by forwarding to phishing@hydroottawa.com<<mailto:phishing@hydroottawa.com>>.

Hello,

We have advised our client not to dig within 1.5 meters of Hydro.

Our client contact is Robert Hillier rhillier@blumetric.ca

Robert, THIS IS NOT your complete locate package. The package will follow once complete.

Thank you,

Sara Staniszewski

100-1704 Carling Ave.

Ottawa, ON

K2A 1C7

Tel: 613-226-8750

Toll Free: 1-877-B4U-DIGG

Fax: 613-226-8677

Locates@usl-1.com

www.usl-1.com

-----Original Message-----

From: teldig.ottawa@promark-telecon.ca <teldig.ottawa@promark-telecon.ca>

Sent: Tuesday, June 9, 2020 2:25 PM

To: Locates <Locates@usl-1.com>

Subject: PROMARK TELECON OTT -- Ticket # 2020234105

See attached file(s)

Le présent courriel et les documents qui y sont attachés s'adressent exclusivement au(x) destinataire(s) à qui ils sont adressés, sont confidentiels et pourraient contenir des renseignements sujets aux droits d'auteur ou protégés par la loi. Toute divulgation, reproduction, distribution ou utilisation non autorisée est interdite. Si vous avez reçu ce courriel par erreur, veuillez en aviser l'émetteur et supprimer toutes les copies du courriel ainsi que les documents qui y sont attachés.

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[<https://static.hydroottawa.com/images/signature/awards2014.gif>]

Fax:
613-723-9277

Toll free:
1-800-371-8866

Email

Utilities Bell Gas HydroOttawa Street Lighting
Located: Bellink Peel Fibre

Date Located:
mm/dd/yyyy **JUNE 8 2020**

Request # 2020234105

Number of Services marked: (Specify building/house numbers)

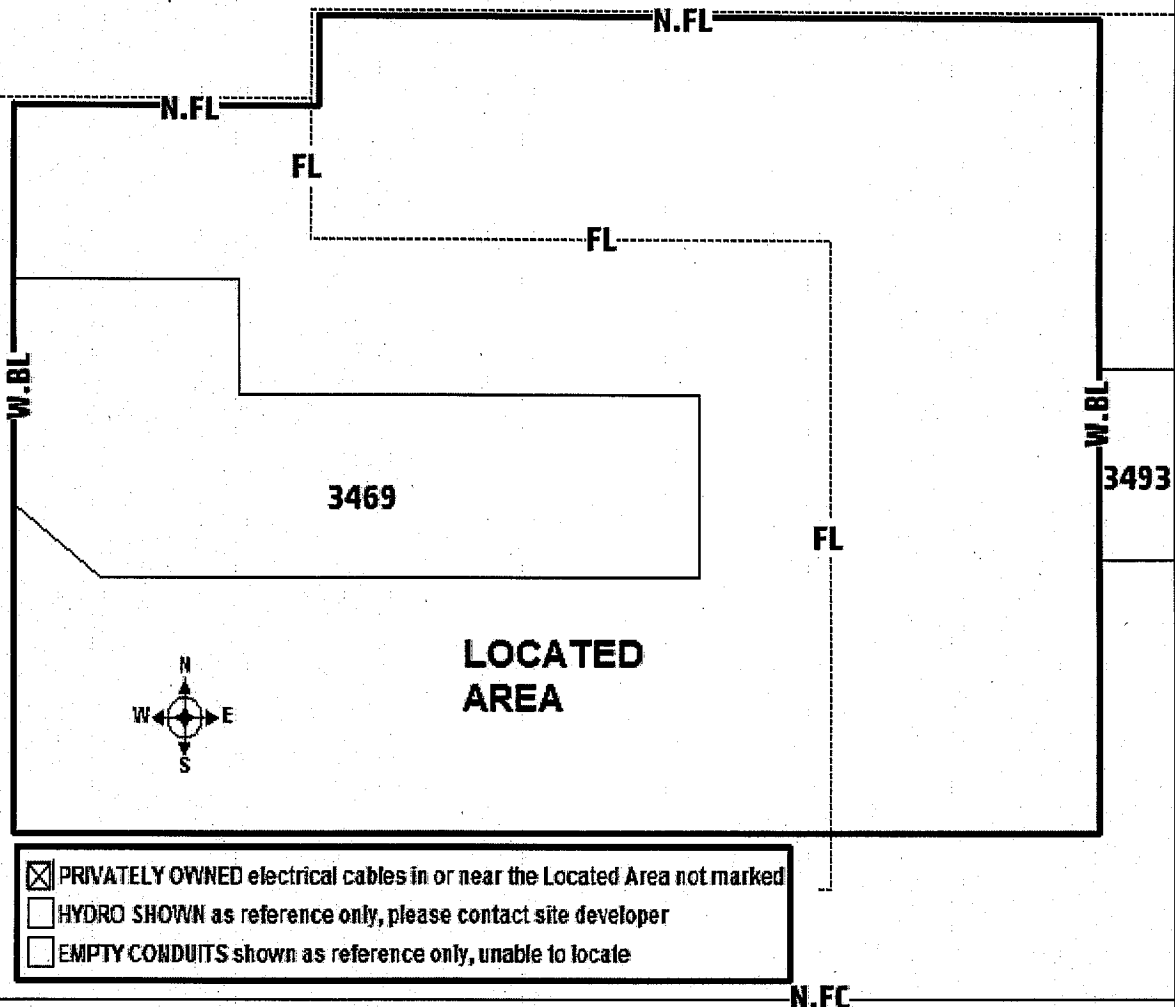
LOCATED AREA: EXCAVATOR SHALL NOT WORK OUTSIDE THE LOCATED AREA WITHOUT OBTAINING ANOTHER LOCATE.

FROM: **WBL OF 3469 INNES RD**
FROM: **NFL OF 3469 & 3493 INNES RD**

TO: **WBL OF 3493 INNES RD**
TO: **10M N OF N.FC INNES RD**

- Legend**
- Building Line - BL -
 - Fence Line - FL -
 - Face of Curb - FC -
 - Asphalt Edge - AE -
 - Sidewalk - SW -
 - Driveway - DW -
 - Manhole M/H
 - Pedestal
 - Flush to Grade Pedestal FTG
 - Buried Service Wire - BSW -
 - Buried Cable - B -
 - Conduit - C -
 - Fiber Optic Cable - FO -
 - Bell Hydro Service - BH -
 - Gas Valve
 - Gas Service - GS -
 - Gas Main - GM -
 - Transformer
 - Demarcation DM
 - Hydro - H -
 - Hydro Primary - HP -
 - Hydro Secondary - HS -
 - Catch Basin CB
 - Sewer Manhole
 - Water Valve
 - Hydrant
 - Water Valve Chamber W
 - Hydro / Bell Pole
 - Railway
 - End Cap
 - Traffic Manhole
 - Street Light Cable - SL -
 - Street Light
 - North N.
 - East E.
 - West W.
 - South S.

CAUTION: Hand dig within 1.5M as measured horizontally from the field markings to avoid damaging the underground utilities. If you damage the plant, you may be held liable. If you damage underground plant, contact the facility owner immediately. Depth varies and **MUST** be verified by hand digging or vacuum excavation. **LOCATED AREA HAS BEEN ALTERED AS PER:** _____



THIS FORM VALID ONLY WITH Primary Locate Form. This sketch is not to scale. Any privately owned services within the located area have not been marked- check with service/property owner.

A copy of this Auxiliary Locate Sheet(s) and the Primary Locate Sheet must be on site and in the hands of the machine operator during work operations. If sketch and markings do not coincide, the Excavator must obtain a new locate.

Fax:
613-723-9277

Toll free:
1-800-371-8866

Email

Utilities Bell Gas HydroOttawa Street Lighting
Located: Bellink Peel Fibre

Date Located:
mm/dd/yyyy **JUNE 8 2020**

Request # 2020234105

Number of Services marked: (Specify building/house numbers)

















LOCATED AREA: EXCAVATOR SHALL NOT WORK OUTSIDE THE LOCATED AREA WITHOUT OBTAINING ANOTHER LOCATE.

FROM: **WBL OF 3469 INNES RD**

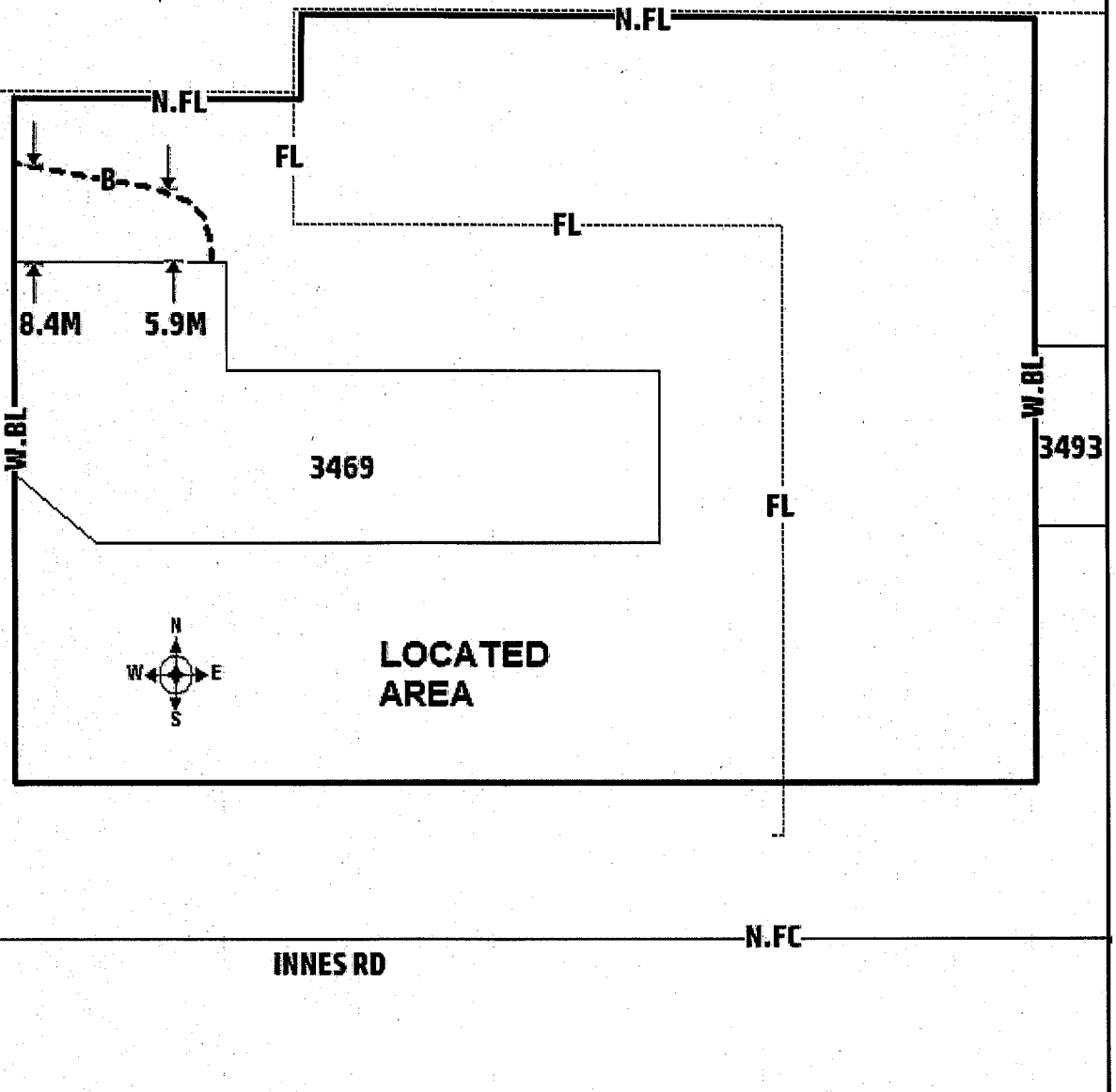
TO: **WBL OF 3493 INNES RD**

FROM: **NFL OF 3469 & 3493 INNES RD**

TO: **10M N OF N.FC INNES RD**

- Legend**
- Building Line --BL--
 - Fence Line --FL--
 - Face of Curb --FC--
 - Asphalt Edge --AE--
 - Sidewalk --SW--
 - Driveway --DW--
 - Manhole 
 - Pedestal 
 - Flush to Grade Pedestal 
 - Buried Service Wire --BSW--
 - Buried Cable --B--
 - Conduit --C--
 - Fiber Optic Cable --FO--
 - Bell Hydro Service --BH--
 - Gas Valve 
 - Gas Service --GS--
 - Gas Main --GM--
 - Transformer 
 - Demarcation 
 - Hydro --H--
 - Hydro Primary --HP--
 - Hydro Secondary --HS--
 - Catch Basin 
 - Sewer Manhole 
 - Water Valve 
 - Hydrant 
 - Water Valve Chamber 
 - Hydro / Bell Pole 
 - Railway 
 - End Cap 
 - Traffic Manhole 
 - Street Light Cable --SL--
 - Street Light 
 - North N.
 - East E.
 - West W.
 - South S.

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Any privately owned services within the located area have not been marked- check with service/property owner.

A copy of this Auxiliary Locate Sheet(s) and the Primary Locate Sheet must be on site and in the hands of the machine operator during work operations. If sketch and markings do not coincide, the Excavator must obtain a new locate.



Auxiliary Locate Sheet

Union Gas Emergency #
1-877-969-0999

Fax:
613-723-9277

Toll free:
1-800-371-8866

Email

Utilities Bell Gas HydroOttawa Street Lighting
 Located: Blink Peel Fibre

Date Located:
mm/dd/yyyy **JUNE 8 2020**

Request # 2020234105

Number of Services marked: (Specify building/house numbers)

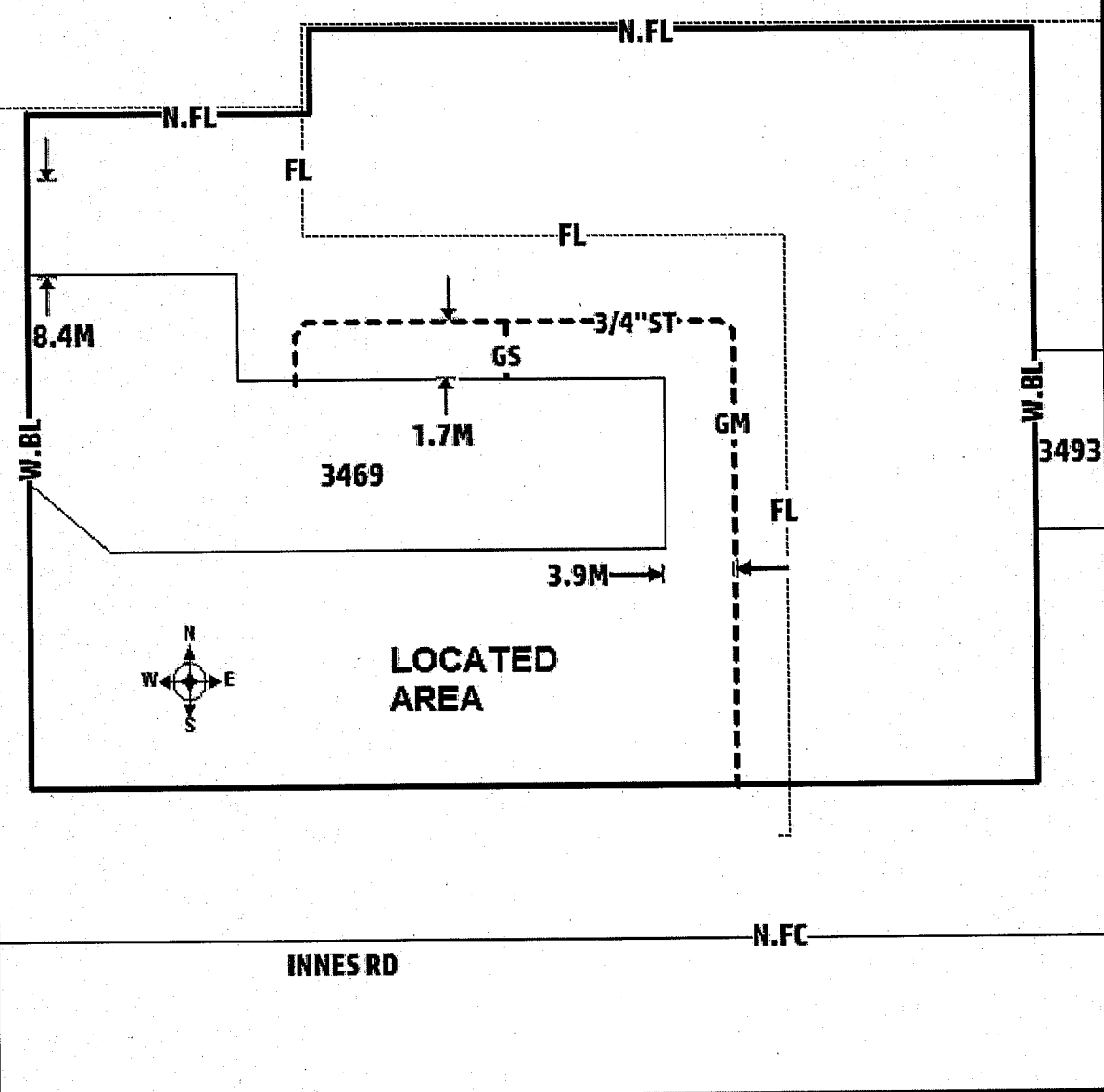
LOCATED AREA: EXCAVATOR SHALL NOT WORK OUTSIDE THE LOCATED AREA WITHOUT OBTAINING ANOTHER LOCATE.

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10M N OF N.FC INNES RD

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 - Bell Hydro Service --BH--
 - Gas Valve
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 - Catch Basin
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CAUTION: Hand dig within 1.5M as measured horizontally from the field markings to avoid damaging the underground utilities. If you damage the plant, you may be held liable. If you damage underground plant, contact the facility owner immediately. Depth varies and **MUST** be verified by hand digging or vacuum excavation. LOCATED AREA HAS BEEN ALTERED AS PER: _____



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A copy of this Auxiliary Locate Sheet(s) and the Primary Locate Sheet must be on site and in the hands of the machine operator during work operations. If sketch and markings do not coincide, the Excavator must obtain a new locate.

ENBRIDGE GAS INC.

Thank you for calling for a locate prior to starting your project.

Please note Enbridge Gas Inc has changed the locate validity period for station codes **ENOE01** and **EN2OE01** and this completed locate is valid for a period of **60 days** from the completion date on the Primary Locate Sheet.

You must adhere to the following:

- You must follow all STOP letters associated with your locate if provided in your locate package.
- You should always review the Primary and all the Auxiliary Sheets of your locate package and understand the validity period for all utilities / infrastructure owners.
- It is the responsibility of Excavators to protect and preserve the original yellow paint markings. White paint can be used to preserve/maintain the markings but should be placed beside or at the top / bottom of the original markings ensuring not to replace the yellow paint.

When winter conditions exist, such as snow, pink paint and stakes or flags can be used.

Please be aware new gas services or mains can be installed after this locate was completed. Newly buried gas plant flags will be installed as visual identifier if this occurs.



If flags are present, please contact Enbridge Gas Damage Prevention at 1-866-922-3622

For station code – **ENOE01** or *Legacy Enbridge Gas Distribution* please refer to the Third Party Requirements in the Vicinity of Natural Gas Facilities must always be followed.

<https://www.enbridgegas.com/~media/Extranet-Pages/Safety/Before-you-dig/Third-Party-Requirements-in-the-Vicinity-of-Natural-Gas-Facilities>

For station code **EN2OE01** or *Legacy Union Gas* please refer to

<https://www.uniongas.com/about-us/safety/safe-digging-practices>

Thank you



February 9 2015

To all Excavators:

Bell locates are now valid for the life of the excavation project and will not automatically be relocated every 60 days.

Please note the following for the above to apply:

- a) Construction within the located area begins within 60 days of the "locate completed" date on the original ticket.
- b) The construction company named on the locate remains active on the site.

Bell expects excavators will protect and preserve the paint marks put down on the original locate ticket. If markings are removed due to weather or excavation work the excavator is expected to recreate the markings based on the tie-in measurements provided on the original locate ticket.

If an excavator would like their markings freshened up they can contact Promark (the Bell Canada Locate Service Provider in this area) directly to arrange for them to place fresh markings on the ground however this will be at the excavators expense. Promark can be reached at 613-723-9888.

The locate will be considered officially expired one day after the final day of construction.

Thank you.

Bell Canada

Service Request Details

Service Request

1361517

Lagan Case ID: 20202341051

Source: Contractor

Created By: Ga Maxpur

Priority:

Reported By:

Status: RESOLVED

Initiated: 2020-Jun-03 4:20 AM

Location Information

Address: 3493 INNES RD	Range:	Unit:
Between Streets: LAMARCHE, AVENUE DE / PAGE, CHEMIN		Municipality: GL
Description:		
Street Range: 3493- Street: INNES RD Intersect 1: LAMARCHE AVE Intersect 2: PAGE RD Door Numbers: - Municipality:		
<p>The work area is clear of underground water and sewer pipes owned by The City of Ottawa. Please note: City of Ottawa locates are valid for sixty (60) days. S'il-vous-plaît notez: les localisations de la ville d'Ottawa sont valables pendant soixante (60) jours.</p>		

Requestor Information

Name: Sara Staniszewski	Phones	
Address: 1704 CARLING AVE	Res:	Cell:
City: OTTAWA	Bus: 6132268750	Ext:
Postal Code: K2A1C7	Unit:	Fax: 6132268677

Call Back & Other Assignments

Responsibilities	Work Order #	Work Order
Service Request		

Request Details

Start Date:	Appointment Time:	Service: ESD
Finish Date: 2020-Jun-05	Classification: LOCATES - PROVIDE	
Amount Charge to Customer:	Category:	

Structures

Structure ID	District	Description	Location	Qualifier	Unit
--------------	----------	-------------	----------	-----------	------

NOTICE OF INTENT TO EXCAVATE

Header Code: STANDARD

Request Type: NORMAL

Ticket No: 2020234105

Original Call Date: 06/03/2020 4:19:32 AM

Work To Begin Date: 06/10/2020

Company: U S L

Contact Name: SARA STANISZEWSKI

Pager:

Contact Phone: (613)-226-8750 ext.

Cell:

Fax: (613)-226-8677 ext.

Alternate Contact: JACQUES DESJARDINS

Alt. Phone:

Place: OTTAWA

Street: 3493 INNES RD

Nearest Intersecting Street: LAMARCHE AVE

Second Intersecting Street: PAGE RD

Subdivision: OTTAWA

Additional Dig Information:

CORLOT=U CLEAR FROM THE INTERIOR PROPERTY/ FENCE CORNER, TO 35M SOUTH, 40M WEST, AND TO 10M NORTH AND EAST OF FENCE AS SHOWN ON PLAN PROVIDED. BOREHOLES MARKED ON SITE. NO_PLAN::

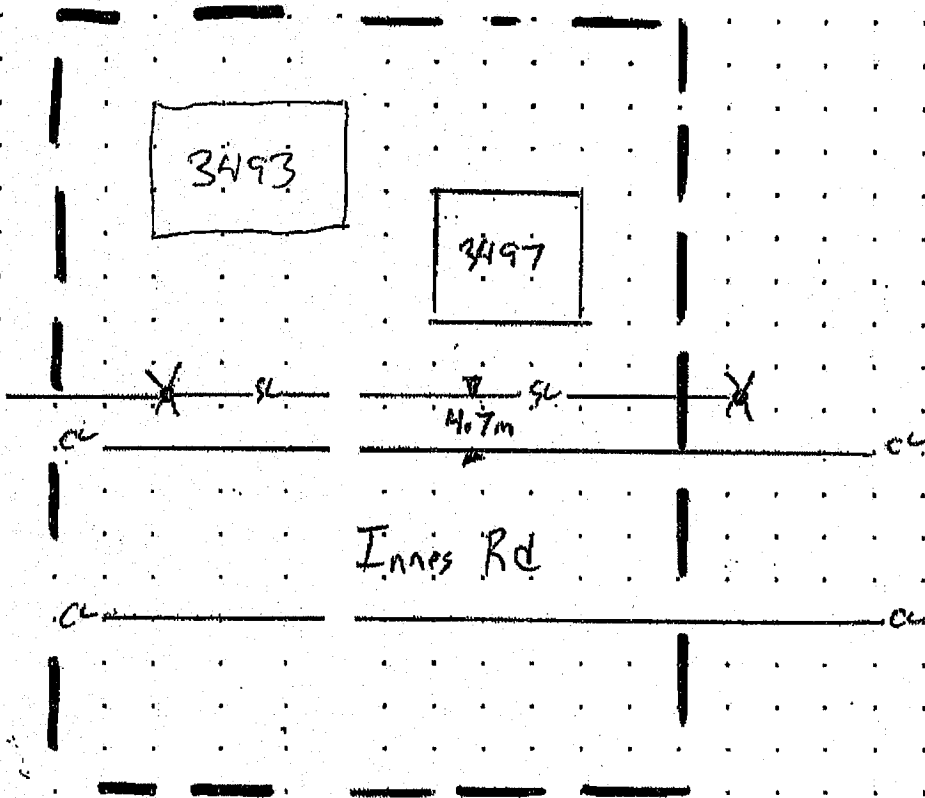
WO/ JOB #: ANYTIME

Type Of Work: BORE HOLES

Remarks:

-75.526605 45.447495 NB_SEGMENTS::1 BC0E01 OTWASL01 OTWATS01 OTWAWS01 ENVMOE01 ENOE01 HOT1

LOCATOR SKETCH



- SL — Street Light Cable
- OH — Overhead/Aerial Wires
- △ Source/Transformer
- ⊗ Street Light
- ⊗ Globe/Decorative Light
- Hydro Pole
- BL = Building Line
- FL = Fence Line
- CL = Face of Curb
- RE = Road Edge
- PL = Property Line

ANY MEASUREMENTS FROM A CURB EDGE ARE FROM OUTSIDE CURB EDGE UNLESS STATED OTHERWISE

Notes/Comments:

Locate is valid for 80 days. If sketch is different from markings, location or nature of work changes, a new locate must be requested. Hand dig within 1m (3.28ft) on either side of markings. Depth of buried plant varies. Cette fiche n'est pas valide 60 jours de calendrier apres le reperege. Si les marques ne concordent pas avec celles sur le croquis, un nouveau reperege est requis. Tout changement a l'emplacement ou a la nature du travail necessite un nouveau reperege. Creuser a la main un metre (3.28 pieds) du repere. La profondeur des installation varie d'un endroit a l'autre.

Date Located	05 June 2020
Located by	KB
Page	2 of 2

Disclaimer

Black & McDonald

Warning!

The Excavator must have a copy of this locate on the job site during excavation.

Located Area: The Excavator must not work outside the area indicated, by the located area in the diagram, without a further locate completed by Black & McDonald Limited.

Locate the Plant: The plant location information provided is the best we have available, but constitutes only an estimate. Depth of underground plant varies and the exact location must be determined by hand digging prior to excavation with mechanical equipment.

Mechanical equipment must not be used within 1.0 meter of the estimated location of the plant.

Valid Documentation: This locate is valid only for the Agency accepting it. Other parties must obtain and accept their respective underground locate from Ontario 1 Call.

Excavator Alterations: Under no circumstance shall an Excavator touch or move an underground power cable. Arrangements must be made to have qualified personnel relocate any such cable.

Expose the plant: Once the plant has been located by hand digging, it must be exposed along its length adjacent to or in the immediate vicinity of the proposed excavation. For this purpose, mechanical equipment must not be used within 0.5 meters of the plant.

Digging around the Exposed Plant: When the plant has been exposed, any further excavation within 0.3 meters, must only be done by hand digging and not with mechanical equipment.

Support Requirements: If the underground plant is exposed over a distance of more than 1.25 meters, the Facility Owner must be notified. Underground plant must be supported at all times.

Private Cables: Please be advised that Black & McDonald Limited is not responsible for and does not locate private cables

New Cables: Be aware that new cables could be installed at any time after the locate has been completed. It is the Excavator's responsibility to call for new locates if any changes are known or suspected.

Caution: The markings may disappear or be misplaced. Should sketch and markings not coincide, the Excavator must obtain a new locate. This is based on the information given at the time. Any changes to location or nature of work require a new locate. The Excavator must not work outside the indicated located area without a further locate. Privately owned services within the located area have not been marked- check with service/property owner.

Liability: Any person or Excavator who interferes with or damages any underground electrical cable without having obtained a valid locate/clearance from Black & McDonald Limited, shall be liable for all cost incurred during the repair of the cable as well as any resulting legal actions.

This locate has been given as accurately as possible, but no locate is guaranteed. Excavators must always dig with extreme caution to prevent the possibility of damaging electrical cables and endangering safety.

Locate is void after 60 days

For remarks contact Ontario One Call 1-800-400-2255 or www.on1call.com



Locates

From: Sigouin, Francois <Francois.Sigouin@ottawa.ca>
Sent: Wednesday, June 3, 2020 12:19 PM
To: Locates
Subject: 2020234105

2020234105

This Ontario One Ticket is ****Clear of Underground City of Ottawa / Ville d'Ottawa Traffic Lights Infrastructure in Proposed Work Area ****

“Locates are Valide for 60 Days”

Ce billet Ontario One est **** libre de toute infrastructure souterraine de la ville d'Ottawa pour les feux de signalisation dans la zone de travail proposée ****

“Les habitants sont valides pendant 60 jours”

Frank Sigouin
City of Ottawa
Traffic U/G Utilities Investigator
Cell: (613)229-0580
Email: francois.sigouin@ottawa.ca
Mon-Fri 7h30 to 16h00

This e-mail originates from the City of Ottawa e-mail system. Any distribution, use or copying of this e-mail or the information it contains by other than the intended recipient(s) is unauthorized. Thank you.

Le présent courriel a été expédié par le système de courriels de la Ville d'Ottawa. Toute distribution, utilisation ou reproduction du courriel ou des renseignements qui s'y trouvent par une personne autre que son destinataire prévu est interdite. Je vous remercie de votre collaboration.

UNDERGROUND SERVICE LOCATORS

DATE: *JUNE 10/20*

ONE-CALL SYSTEMS INC.

100-1704 CARLING AVE

PHONE (613) 226-8750

OTTAWA, ON K2A 1C7

FAX (613) 226-8677

CUSTOMER: *BLUMETRIC*

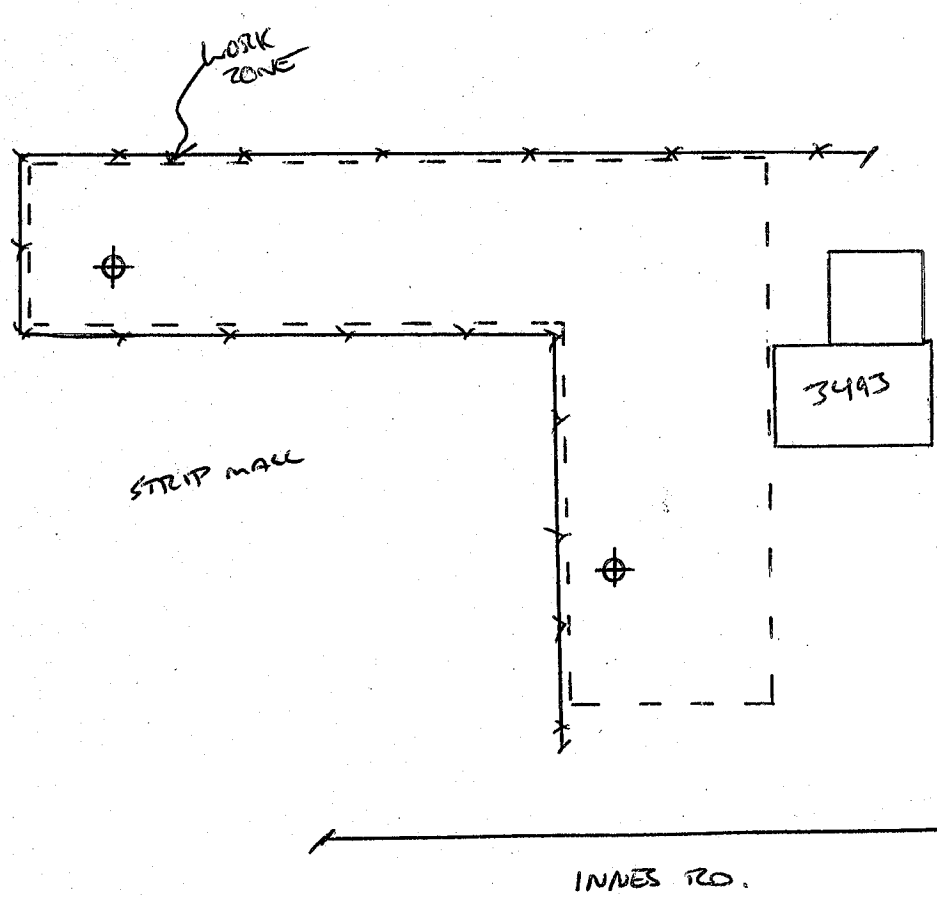
REQUESTED BY: *ROBERT HILLIER*

LOCATION OF WORK: *3493 INNES RD.*

LIMITS OF WORK: *BHS*

HYDRO	-- H --	CABLE T.V.	-- T.V. --	<u>OTHER:</u>
GAS	-- G --	SANITARY		
BELL	-- B --	SEWER	-- S --	
WATER	-- W --	STORM	-- ST --	

LOCATES ONLY APPLICABLE TO INFO ABOVE - LOCATES VOID AFTER 30 DAYS!



** WORK AREA CLEAR
SERVICES FOR 3493
ARE CUT/ABAND.*

SKETCH NOT TO SCALE

THIS SKETCH IS NOT A VALID PUBLIC UTILITY LOCATE. CONTRACTOR IS RESPONSIBLE TO ENSURE THEY HAVE PUBLIC LOCATES BEFORE COMMENCING WORK.

ASBUILTS OR PLANS PROVIDED: YES NO

LOCATORS NAME: *MATT MOREAU* SIGNATURE: *[Signature]*

CAUTION: HAND DIG WITHIN 1.5 METERS OF MARKINGS

USL-1 DISCLAIMER - FORM 101

- It is our Clients responsibility to fully read and understand this document, prior to any ground disturbance taking place. Should any questions or clarifications be required, contact USL-1 before commencing work
- Locate is VOID after 30 days from the date the locate was completed. Contact USL-1 for remarks and/or new ticket requests, with a minimum notice of 5 business days
- If the scope of work, locate area, or site information changes, contact USL-1 before continuing work. In certain instances, a new ticket request may be required
- Any work within 1.5 metres laterally of a marked utility, must be hand dug or daylighted. Utility depths vary, as does the accuracy of the locate equipment, and therefore depths are typically not provided and should not be used for excavation purposes. Depth of utilities should also be verified by hand digging or daylighting. The best information is provided at the time of the locate, however the accuracy of field markings can vary with regard to equipment accuracy and external interference
- If the paint markings or flags on site differ from that of the sketch provided, please contact USL-1 before commencing work. If possible, the issue will be clarified by USL-1 and/or a site meet may be requested with the appropriate parties
- The "Excavator" is responsible for keeping a current copy of the locates on site, with the operators and in/on the excavation equipment AT ALL TIMES
- It is the "Excavator/Contractor's" responsibility to read ALL locate sheets, both public and private, to ensure they understand what potential hazards or buried utilities exist in their work area
- Special purpose locates such as sewer sondeing, locate surveys, tunnel identification, conduit identification, ground fault detections, ground penetrating radar, well cap location, concrete scanning, or anything else that requires use of more than Radiodetection equipment, must be identified at the time of the original locate request. Should a USL-1 locator identify any special needs services during a normal Private utility locate, the client will be notified for the appropriate course of action
- Not all buried utilities can be traced. In many instances, water and sewer lines, irrigation systems, grounding cables, fibre optic cables, heating cables, protection cables, and communication cables may not be traceable. Typically, sewer lines will be painted and lined up directionally from manhole to manhole where possible. It may not be possible to detect bends in the sewer lines between manholes. If tracer wires have been buried with the utility, they will be used to locate the buried utility where possible. If a buried utility cannot be traced, it will be noted on the USL-1 report. USL-1 is not liable for damage to untraceable utilities
- Public utility locators have maps, plans and as-built diagrams for reference to work from. Private utility locators, for the most part, do not. USL-1 will attempt to locate any Private utilities on a site, using as-built plans provided to them. Building access is mandatory and must be arranged by our client. Any conduits or utilities noted entering or exiting a building will be traced if possible, as well as any other visible utilities observed on site. It is the responsibility of the contractor to provide any and all buried utility information and site contacts that they have. There is no guarantee that USL-1 can find all buried utilities if the property owner does not have records or information regarding their own buried utilities
- USL-1 cannot be held liable for damage to Private water and/or sewer laterals unless building access is granted, and the utility is locatable
- Thick snow and ice, frozen manhole lids, live traffic, parked cars, construction debris and activities etc, are all factors that can interfere with USL-1's ability to perform Private utility locates. USL-1 cannot guaranty location of all buried utilities when such factors impede the locate process. It is the contractor's responsibility to ensure that the work areas are safe and accessible for locates, prior to USL-1's arrival to site
- USL-1 as a Private utility locator, is not permitted to locate Publicly owned utilities. In some cases, Public utilities may be noted on a sketch, but are FOR REFERENCE ONLY, and under no circumstances shall be used for excavation purposes. It is the contractor's responsibility to verify any Public utilities noted on the USL-1 sketch by referring to the Public utility locate sheets for physical LOCATION AND ACCURACY. USL-1 DOES NOT ASSUME LIABILITY FOR PUBLIC LOCATE INNACCURACIES
- If the proposed work area is on Private property, it does NOT mean that all buried utilities are Private. Regardless of where you are digging, and what the proposed depth of excavation is, it is the law to notify Ontario One Call (or Info-Excavation in Quebec) to obtain Public utility locates
- NCC PROPERTY - assuming the contractor has been issued a Land Access Permit from the NCC, it is typically indicated within the permit that it is the contractor's responsibility to contact NCC for utility locates of their buried utilities

USL-1 - January 2016

APPENDIX B

Borehole Logs



Project No.: 200413
Client: Gestion Fframi
Report:
Site Address: 3493 and 3497 Innes Rd.
 Ottawa, ON

BOREHOLE ID: MW1

Elevation Ground: 100.02 m
TOP: 99.92 m
MOECC Well Tag: A296206
UTM 18 (Zone T): 5032784 N
 458840 E

SUBSURFACE PROFILE				SAMPLE						WELL COMPLETION					
Depth (m)	Symbol	Description	Depth (m) / Elev. (m a.s.l.)	Sample ID	Type	Blow Counts	Recovery (%)	Lab Analysis	Headspace Vapour Level CGD (ppm)				Construction	Notes	
									10	100	1000	10000			
0		Ground Surface	0.00												
0.00 - 0.30		Organics	100.02												
0.30 - 0.98		Silt Damp, brown silt with sand, some clay, trace angular gravel	99.72	MW1 S1	■		71%	PHCs and BTEX	0.0						flushmount, jplug
0.98 - 1.14		Clay Damp, brown sandy clay	98.88												
1.14 - 7.77		Limestone Limestone bedrock encountered at 1.14 m, Hit soft voids in bedrock at: 1.67m, 4.42m, 6.71m	98.88												Cuttings
4.57 - 7.62															0.6 m thick benseal
7.62 - 7.77															GW = 95.82 m
4.57 - 7.62															3.05 m x 50 mm 10 slot PVC Screen with #3 silica Sand
7.77 - 8.00		End of borehole at 7.77 m	7.77 / 92.25												End cap
7.77 - 7.92		Well Completion Details: Screened interval from 4.57 m to 7.62 m below surface Elevation at top of pipe (TOP) = 99.92 m													
7.92 - 7.97		Encountered water at 7.47 m													

BH MW OB LOG V1.0 200413 3493 AND 3497 INNES RD.GPJ WESA TEMPLATE V1.2.GDT 20-7-3

Drill Date: 2020 June 19
Drilled By: Strata Drilling Group
Drilling Method: Tri-Cone
Hole Diameter: 0.089 m (OD)
Logged By: LJ
Checked By:

Notes: ■ CONTINUOUS SAMPLE



BOREHOLE ID: MW2

Project No.: 200413
Client: Gestion Frrami
Report:
Site Address: 3493 and 3497 Innes Rd.
 Ottawa, ON

Elevation Ground: 100.72 m
TOP: 100.62 m
MOECC Well Tag: A296207
UTM 18 (Zone T): 5032791 N
 458798 E

SUBSURFACE PROFILE				SAMPLE					WELL COMPLETION						
Depth (m)	Symbol	Description	Depth (m) / Elev. (m.a.s.l.)	Sample ID	Type	Blow Counts	Recovery (%)	Lab Analysis	Headspace Vapour Level CGD (ppm)				Construction	Notes	
									10	100	1000	10000			
0		Ground Surface	0.00												
0		Fine sand Damp, brown, fine sand with sily, trace clay and angular gravel.	100.72												flushmount, jplug
0.61		Silt Damp, brown, sandy silt, trace clay	100.11	MW2 S1	■		76%	PHCs and BTEX	20.0						
0.86		Limestone Limestone bedrock encountered at 0.86 m, Hit soft voids in bedrock at: 1.83m, 5.5m	99.86												
1															
2															Cuttings
3															
4															0.6 m thick benseal
5															GW = 95.49 m
6															3.05 m x 50 mm 10 slot PVC Screen with #3 silica Sand
7															
7.62		End of borehole at 7.62 m	93.10												End cap
8		Well Completion Details: Screened interval from 4.57 m to 7.62 m below surface Elevation at top of pipe (TOP) = 100.62 m													
9															

BH MW OB LOG V1.0 200413 3493 AND 3497 INNES RD.GPJ WESA TEMPLATE V1.2.GDT 20-7-3

Drill Date: 2020 June 19
Drilled By: Strata Drilling Group
Drilling Method: Tri-Cone
Hole Diameter: 0.089 m (OD)
Logged By: LJ
Checked By:

Notes: ■ CONTINUOUS SAMPLE

APPENDIX C

Photo Log



Drill Setting Up at MW1 – June 19, 2020



Looking West at MW1 – June 19, 2020



Drilling at MW2 – June 19, 2020



Looking West at MW2– June 19, 2020

APPENDIX D

Laboratory Certificates of Analysis

Certificate of Analysis

BluMetric Environmental Inc. (Carp)

P.O. Box 430, 3108 Carp Rd.
Carp, ON K0A 1L0
Attn: Rob Hillier

Client PO: 200413
Project: 200413-Innes Rd
Custody: 125383

Report Date: 25-Jun-2020
Order Date: 19-Jun-2020

Order #: 2025589

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

Paracel ID	Client ID
2025589-01	MW1 S1
2025589-02	MW2 S1

Approved By:



Dale Robertson, BSc
Laboratory Director

Certificate of Analysis

Report Date: 25-Jun-2020

Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 8260 - P&T GC-MS	19-Jun-20	21-Jun-20
PHC F1	CWS Tier 1 - P&T GC-FID	19-Jun-20	21-Jun-20
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	19-Jun-20	23-Jun-20
Solids, %	Gravimetric, calculation	24-Jun-20	24-Jun-20

Certificate of Analysis

Report Date: 25-Jun-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Client ID:	MW1 S1	MW2 S1	-	-
Sample Date:	19-Jun-20 08:50	19-Jun-20 12:45	-	-
Sample ID:	2025589-01	2025589-02	-	-
MDL/Units	Soil	Soil	-	-

Physical Characteristics

% Solids	0.1 % by Wt.	76.4	81.5	-	-
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Volatiles

Benzene	0.02 ug/g dry	<0.02	<0.02	-	-
Ethylbenzene	0.05 ug/g dry	<0.05	<0.05	-	-
Toluene	0.05 ug/g dry	<0.05	<0.05	-	-
m,p-Xylenes	0.05 ug/g dry	<0.05	<0.05	-	-
o-Xylene	0.05 ug/g dry	<0.05	<0.05	-	-
Xylenes, total	0.05 ug/g dry	<0.05	<0.05	-	-
Toluene-d8	Surrogate	117%	120%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	7 ug/g dry	<7	<7	-	-
F2 PHCs (C10-C16)	4 ug/g dry	<4	<4	-	-
F3 PHCs (C16-C34)	8 ug/g dry	<8	<8	-	-
F4 PHCs (C34-C50)	6 ug/g dry	<6	<6	-	-

Certificate of Analysis

Report Date: 25-Jun-2020

Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g						
F2 PHCs (C10-C16)	ND	4	ug/g						
F3 PHCs (C16-C34)	ND	8	ug/g						
F4 PHCs (C34-C50)	ND	6	ug/g						
Volatiles									
Benzene	ND	0.02	ug/g						
Ethylbenzene	ND	0.05	ug/g						
Toluene	ND	0.05	ug/g						
m,p-Xylenes	ND	0.05	ug/g						
o-Xylene	ND	0.05	ug/g						
Xylenes, total	ND	0.05	ug/g						
Surrogate: Toluene-d8	3.54		ug/g		111	50-140			

Certificate of Analysis

Report Date: 25-Jun-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	7	ug/g dry	ND			NC	40	
F2 PHCs (C10-C16)	ND	4	ug/g dry	ND			NC	30	
F3 PHCs (C16-C34)	ND	8	ug/g dry	ND			NC	30	
F4 PHCs (C34-C50)	ND	6	ug/g dry	ND			NC	30	
Physical Characteristics									
% Solids	65.2	0.1	% by Wt.	62.1			4.8	25	
Volatiles									
Benzene	ND	0.02	ug/g dry	ND			NC	50	
Ethylbenzene	ND	0.05	ug/g dry	ND			NC	50	
Toluene	ND	0.05	ug/g dry	ND			NC	50	
m,p-Xylenes	ND	0.05	ug/g dry	ND			NC	50	
o-Xylene	ND	0.05	ug/g dry	ND			NC	50	
Surrogate: Toluene-d8	3.79		ug/g dry		110	50-140			

Certificate of Analysis

Report Date: 25-Jun-2020

 Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	181	7	ug/g	ND	90.3	80-120			
F2 PHCs (C10-C16)	119	4	ug/g	ND	138	60-140			
F3 PHCs (C16-C34)	272	8	ug/g	ND	129	60-140			
F4 PHCs (C34-C50)	142	6	ug/g	ND	106	60-140			
Volatiles									
Benzene	2.75	0.02	ug/g	ND	68.9	60-130			
Ethylbenzene	3.83	0.05	ug/g	ND	95.7	60-130			
Toluene	3.71	0.05	ug/g	ND	92.8	60-130			
m,p-Xylenes	7.30	0.05	ug/g	ND	91.2	60-130			
o-Xylene	3.78	0.05	ug/g	ND	94.5	60-130			
Surrogate: Toluene-d8	2.79		ug/g		87.3	50-140			

Certificate of Analysis

Report Date: 25-Jun-2020

Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 19-Jun-2020

Client PO: 200413

Project Description: 200413-Innes Rd

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

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

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

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.



Laurent Blvd.
io K1G 4J8
1947
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abs.com

Parcel Order Number
(Lab Use Only)

2025589

Chain Of Custody

(Lab Use Only)

Nº 125383

Client Name: Blumetric Environmental
Contact Name: Rob Hillier
Address: 3108 Carr Rd, Carr, ON K0A1K0
Telephone: 613-296-2091

Project Ref: 200413 - Innes Rd
Quote #: _____
PO #: 200413
E-mail: rhillier@blumetric.ca

Page 1 of 1
Turnaround Time
 1 day 3 day
 2 day Regular
Date Required: _____

Regulation 153/04		Other Regulation		Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) P (Paint) A (Air) O (Other)			Required Analysis											
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park <input type="checkbox"/> Med/Fine	<input type="checkbox"/> REG 558	<input type="checkbox"/> PWQO	Matrix	Air Volume	# of Containers	Sample Taken Date Time		PHCS F1-F4+BTEX	VOCS	PAHS	Metals by ICP						
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse	<input type="checkbox"/> CCME	<input type="checkbox"/> MISA									Hg	CrVI	B (HWS)				
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> SU - Sani	<input type="checkbox"/> SU - Storm															
<input type="checkbox"/> Table _____		Mun: _____																
For RSC: <input type="checkbox"/> Yes <input type="checkbox"/> No				<input type="checkbox"/> Other: _____														
Sample ID/Location Name																		
1	MW1 S1	S				2	19-Jun-20	8:50	X									
2	MW2 S1	S				2	19-Jun-20	12:45	X									
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Comments: _____

Method of Delivery: Drop Box

Relinquished By (Sign): <u>[Signature]</u>	Received By Driver/Depot: _____	Received at Lab: <u>Suneeporn Dokmai</u>	Verified By: <u>[Signature]</u>
Relinquished By (Print): <u>B. Andrews</u>	Date/Time: _____	Date/Time: <u>JUN 19, 2020 03:49</u>	Date/Time: <u>06-19-20 16:18</u>
Date/Time: <u>June 19/20 15:30</u>	Temperature: _____ °C	Temperature: <u>10.0</u> °C	pH Verified: <input type="checkbox"/> By: _____

Certificate of Analysis

BluMetric Environmental Inc. (Carp)

P.O. Box 430, 3108 Carp Rd.
Carp, ON K0A 1L0
Attn: Rob Hillier

Client PO: 200413
Project: Innes Rd
Custody: 54525

Report Date: 2-Jul-2020
Order Date: 25-Jun-2020

Order #: 2026423

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

Parcel ID	Client ID
2026423-01	MW1
2026423-02	MW2

Approved By:



Dale Robertson, BSc
Laboratory Director

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.

Certificate of Analysis

Report Date: 02-Jul-2020

Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: **Innes Rd**

Analysis Summary Table

Analysis	Method Reference/Description	Extraction Date	Analysis Date
BTEX by P&T GC-MS	EPA 624 - P&T GC-MS	29-Jun-20	29-Jun-20
PHC F1	CWS Tier 1 - P&T GC-FID	26-Jun-20	29-Jun-20
PHCs F2 to F4	CWS Tier 1 - GC-FID, extraction	29-Jun-20	30-Jun-20

Certificate of Analysis

Report Date: 02-Jul-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: Innes Rd

Client ID:	MW1	MW2	-	-
Sample Date:	25-Jun-20 14:35	25-Jun-20 14:00	-	-
Sample ID:	2026423-01	2026423-02	-	-
MDL/Units	Water	Water	-	-

Volatiles

Benzene	0.5 ug/L	<0.5	<0.5	-	-
Ethylbenzene	0.5 ug/L	<0.5	<0.5	-	-
Toluene	0.5 ug/L	<0.5	<0.5	-	-
m,p-Xylenes	0.5 ug/L	<0.5	<0.5	-	-
o-Xylene	0.5 ug/L	<0.5	<0.5	-	-
Xylenes, total	0.5 ug/L	<0.5	<0.5	-	-
Toluene-d8	Surrogate	99.0%	100%	-	-

Hydrocarbons

F1 PHCs (C6-C10)	25 ug/L	<25	<25	-	-
F2 PHCs (C10-C16)	100 ug/L	<100	<100	-	-
F3 PHCs (C16-C34)	100 ug/L	<100	<100	-	-
F4 PHCs (C34-C50)	100 ug/L	<100	<100	-	-

Certificate of Analysis

Report Date: 02-Jul-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: Innes Rd

Method Quality Control: Blank

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L						
F2 PHCs (C10-C16)	ND	100	ug/L						
F3 PHCs (C16-C34)	ND	100	ug/L						
F4 PHCs (C34-C50)	ND	100	ug/L						
Volatiles									
Benzene	ND	0.5	ug/L						
Ethylbenzene	ND	0.5	ug/L						
Toluene	ND	0.5	ug/L						
m,p-Xylenes	ND	0.5	ug/L						
o-Xylene	ND	0.5	ug/L						
Xylenes, total	ND	0.5	ug/L						
Surrogate: Toluene-d8	81.6		ug/L		102	50-140			

Certificate of Analysis

Report Date: 02-Jul-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: Innes Rd

Method Quality Control: Duplicate

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	ND	25	ug/L	ND			NC	30	
Volatiles									
Benzene	ND	0.5	ug/L	ND			NC	30	
Ethylbenzene	ND	0.5	ug/L	ND			NC	30	
Toluene	ND	0.5	ug/L	ND			NC	30	
m,p-Xylenes	ND	0.5	ug/L	ND			NC	30	
o-Xylene	ND	0.5	ug/L	ND			NC	30	
Surrogate: Toluene-d8	80.2		ug/L		100	50-140			

Certificate of Analysis

Report Date: 02-Jul-2020

Client: BluMetric Environmental Inc. (Carp)

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: Innes Rd

Method Quality Control: Spike

Analyte	Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Hydrocarbons									
F1 PHCs (C6-C10)	1760	25	ug/L	ND	87.8	68-117			
F2 PHCs (C10-C16)	2030	100	ug/L	ND	127	60-140			
F3 PHCs (C16-C34)	4550	100	ug/L	ND	116	60-140			
F4 PHCs (C34-C50)	2590	100	ug/L	ND	105	60-140			
Volatiles									
Benzene	29.8	0.5	ug/L	ND	74.4	60-130			
Ethylbenzene	35.0	0.5	ug/L	ND	87.6	60-130			
Toluene	31.6	0.5	ug/L	ND	79.1	60-130			
m,p-Xylenes	69.9	0.5	ug/L	ND	87.4	60-130			
o-Xylene	36.0	0.5	ug/L	ND	90.0	60-130			
Surrogate: Toluene-d8	81.3		ug/L		102	50-140			

Certificate of Analysis

Report Date: 02-Jul-2020

Client: **BluMetric Environmental Inc. (Carp)**

Order Date: 25-Jun-2020

Client PO: 200413

Project Description: Innes Rd

Qualifier Notes:

None

Sample Data Revisions

None

Work Order Revisions / Comments:

None

Other Report Notes:

n/a: not applicable

ND: Not Detected

MDL: Method Detection Limit

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

%REC: Percent recovery.

RPD: Relative percent difference.

NC: Not Calculated

CCME PHC additional information:

- The method for the analysis of PHCs complies with the Reference Method for the CWS PHC and is validated for use in the laboratory. All prescribed quality criteria identified in the method has been met.
- F1 range corrected for BTEX.
- F2 to F3 ranges corrected for appropriate PAHs where available.
- The gravimetric heavy hydrocarbons (F4G) are not to be added to C6 to C50 hydrocarbons.
- In the case where F4 and F4G are both reported, the greater of the two results is to be used for comparison to CWS PHC criteria.
- When reported, data for F4G has been processed using a silica gel cleanup.

