

SHELL CANADA PRODUCTS

**3005 DUNDAS STREET WEST
OAKVILLE, ON (C05875)**

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
AND REMEDIATION**

REF.: S09125

THIS REPORT IS SUBJECT TO A DISCLAIMER BY SHELL.



**Submitted:
November 2012**

**Prepared by:
SNC-Lavalin Environment
Toronto, Ontario**



**SNC•LAVALIN
Environment**

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1. EXECUTIVE SUMMARY

SNC-Lavalin Environment (SLE), Division of SNC-Lavalin Inc., was retained by Shell Canada Products (Shell) to conduct a pre-remedial assessment, a groundwater remedial program, a post-remedial groundwater assessment and to prepare a Phase II Environmental Assessment (ESA) report for the former Shell retail fuel outlet located at 3005 Dundas Street West, Oakville, Ontario. Field work activities were completed between August 19, 2010 and June 26, 2012.

The purpose of the field program was to remediate residual groundwater impacts identified in the southern portion of the site, and prepared a Phase II ESA report to satisfy the requirements for filing of a record of site condition (RSC). The Phase II ESA was conducted in accordance with Ontario Regulation 153/04, as amended and included the review, interpretation and evaluation of the information obtained and development of a Phase II conceptual site model (CSM). The media investigated during this investigation included soil and groundwater. A Transition Notice was filed allowing the application of the 2004 standards.

2. INTRODUCTION

SNC-Lavalin Environment (SLE), Division of SNC-Lavalin Inc., was retained by Shell Canada Products (Shell) to conduct a pre-remedial assessment, a groundwater remedial program, a post-remedial groundwater assessment and to prepare a Phase II Environmental Assessment (ESA) report for the former Shell retail fuel outlet located at 3005 Dundas Street West, Oakville, Ontario. Field work activities were completed between August 19, 2010 and June 26, 2012; the results of which are described in detail in the Remedial report included as Appendix A.

The purpose of the field program was to remediate residual groundwater impacts identified in the southern portion of the site, and prepared a Phase II ESA report to satisfy the requirements for filing of a record of site condition (RSC). The Phase II ESA was conducted in accordance with Ontario Regulation 153/04, as amended and included the review, interpretation and evaluation of the information obtained and development of a Phase II conceptual site model (CSM). The media investigated during this investigation included soil and groundwater.

2.1 Site Description

The Phase II Property (hereinafter referred to as the “site” in this report) measures approximately 0.6 acres (0.2 ha) and is located on the northwest corner of Old Bronte Road and Dundas Street West (Figure A). The legal description of the site is PT LT 31, CON 1 Trafalgar, North of Dundas Street, As in TW29654, Except PT1, 2OR187 and PM856; Oakville/Trafalgar. The site is currently vacant. A copy of the legal survey of the site is provided as Appendix B.

The site operated as a service station and retail fuel facility from the mid-1960. The retail fuel facility operations terminated in 2007 and associated site infrastructure was decommissioned. Site infrastructure at the time of decommissioning included: five (5) 22,700 L single wall fibreglass underground storage tanks (USTs), used for the storage of gasoline, located on the southwest corner of the site, a concrete apron, kiosk, dispensers, associated piping and vents. In addition, the former service station building was also demolished at this time, including the removal of a former fuel oil UST, a concrete septic tank and associated tile bed. A former waste oil UST was previously removed from the site.

A soil remediation program was completed at the site in 2008-2009; the field work included a soil remedial excavation within the southern portion of the site, as well as assessment and soil remedial excavation activities within the area of the former service station building.

Both the site decommissioning and the soil remediation program were completed by Wardrop Engineering Inc. (Wardrop). The locations of historical and current site infrastructure are provided in Figure B.

At the request of Shell, SLE completed a Phase I ESA in 2010, which was updated in 2012 (SLE, 2012a), and included the determination of the Phase I Study Area. Two areas of potential environmental concern (APEC) were identified in the updated Phase I ESA, both related to the former retail fuel outlet and the abovementioned infrastructure (as indicated on the attached Figure C). These APECs included residual on-site groundwater impact in the southern portion of the site, as well as potential offsite soil and groundwater impact along the east and south property boundaries. No other APECs were identified (SLE, 2012a).

As indicated in Figure B, the site is rectangular in shape, and is currently vacant. There were no water bodies or areas of natural significance located within the Phase One Study Area. The nearest water body is a tributary of Fourteen Mile Creek, located approximately 7.5 km south of the site. Regional groundwater flow is expected towards the south-southeast. Surrounding land use on adjacent properties included:

- North:** Old Bronte Road with Residential housing development beyond (Zoning Bylaw 1984-063 - Agricultural Zone “A”).
- South:** Residential housing development (Zoning Bylaw 1984-063 - Residential Zone “R7&R8”).
- East:** Dundas Street West with Commercial developments (plaza) beyond (Zoning Bylaw 1984-063 - Commercial Zone “C4”).
- West:** Vacant Land (Zoning Bylaw 1984-063 - Agricultural Zone “A”) with Bronte Road beyond.

Some properties located within 250 m of the site use private potable water wells, including the former site. However, there are municipal services to commercial and residential developments located east and south of the site, respectively.

2.2 Property Ownership

Site Owner	Shell Canada Products 90 Sheppard Avenue East Toronto, Ontario
Person requesting Phase II ESA	Mr. Lee Howell Project Manager Environmental Services Shell Canada Products

2.3 Current and Proposed Future Uses

The site is currently vacant. The most recent property use at the site was a Shell service station and retail fuel facility which operated from mid-1960 until 2007, when it closed for

decommissioning. The site was developed for industrial property uses previously. Future use of the site is unknown.

2.4 Applicable Site Condition Standard

Site condition standards for use at this site were selected in the Groundwater Remediation report (Appendix A) from the Ontario Ministry of the Environment (MOE) Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act using the approach described by O. Reg. 153/04, as amended (MOE, 2011a).

As discussed in Appendix A, site condition standards selected for use at this site correspond to the full depth site condition standards for medium to fine textured soil and industrial/commercial/community land use in a potable groundwater condition using the approach described in O. Reg. 153/04 (as amended). Although changes to the standards came into effect on July 1, 2011, a Transition Notice to allow filing for a RSC under the MOE 2004 standard for this site was filed on December 21, 2010. On this basis, groundwater analytical results obtained during the 2011 and 2012 monitoring and sampling programs were compared to the selected MOE 2004 Table 2 standards (i.e. Table 2: Generic Site Condition Standards in a Potable Groundwater Condition, MOE, 2004). A copy of the Transition Notice is included in the Groundwater Remediation report in Appendix A.

3. BACKGROUND INFORMATION

3.1 Physical Setting

There were no water bodies or areas of natural significance located within the Phase I Study Area. The nearest water body is a tributary of Fourteen Mile Creek, located approximately 7.5 km south of the site. Regional groundwater flow is expected towards the south-southeast.

The topography of the site is generally flat. The site is unpaved and drainage is via infiltration and/or overland flow to ditches adjacent to the south and east property boundaries. Prior to the soil remediation program, the depth to groundwater on site ranged from 0.23 m to 3.85 m below ground surface (bgs) (Wardrop, 2008b). A post (soil) remediation investigation indicated that the depth to groundwater ranged from 1.02 m to 1.78 m bgs on-site (Aqua Terre, 2009). Groundwater mounding was observed on-site, post (soil) remediation; likely associated with the backfill material in the southern portion of the site. As such, shallow groundwater flow is expected to flow away (off-site) from the artificially elevated groundwater levels on-site.

3.2 Past Investigation

A Phase I ESA was completed by SLE in 2010 and updated in 2012 (SLE, 2012a). Site visits were completed by SLE personnel on August 19, 2010, March 22 and June 26, 2012. The report was signed by a Qualified Person (QP) as defined by O. Reg 153/04, as amended.

As described in the updated Phase I ESA (SLE, 2012a), soil and groundwater investigations were previously completed at the site, as well as soil remediation (excavation) program in 2008-2009, following the decommissioning of the site; both completed by Wardrop (Wardrop, 2008b). A review of the reports summarising these previous investigations indicated that, soils having petroleum hydrocarbon concentrations exceeding the previously applicable MOE (2004) Table 2 standards for BTEX, PHC F1 to F4 and MTBE were identified and remediated through excavation from the southern portion of the site. No other contaminants of concern were identified. The locations of previously completed excavations, boreholes and monitoring wells are shown on Figure D.

Although the on-site soils were remediated for the contaminants of concern, two Areas of Potential Environmental Concern (APEC) were identified for the site. These APECs are presented on Figure C and are summarized below:

APEC and Rationale	Potential Contaminants of Concern (PCOC)	Comments/ Uncertainties
APEC #1 (on-site) Location of former retail fuel outlet and automotive service garage – residual (localized) groundwater impacts identified in southern portion of the property.	<ul style="list-style-type: none"> • Benzene and MTBE – Groundwater 	Results based on available records, reports and historical information
APEC #2 (off-site) Dundas Street West and Old Bronte Road allowances south and east of the site, respectively – residual soil and groundwater impacts	<ul style="list-style-type: none"> • BTEX, PHC F1 to F4 – Soil and/or Groundwater • MTBE – Groundwater 	

4. SCOPE OF THE INVESTIGATION

4.1 Overview of Site Investigation

The objectives of this work program were to:

- Assess soil and groundwater conditions within the areas intended for groundwater remediation to determine current soil and groundwater prior to remediation (SLE, 2012a);
- Supervise an insitu-groundwater remediation program, and,
- Assess the post-remedial groundwater conditions to satisfy the requirements for filing of a record of site condition (RSC).

To meet the objectives described above, SLE completed the following work:

- Drilling of four (4) boreholes (BH-501 to BH-504), completed as monitoring wells (designated as MW-501 to MW-504), in the vicinity of MW-401 and MW-402, to assess the soil and groundwater conditions in these two areas, and to establish that the soil conditions within the vicinity of MW-401 and MW-402 were unlikely to contribute to potential groundwater impact prior to the implementation of the ISCO program;
- Collection of soil samples from all four (4) boreholes and submission of selected soil samples for laboratory analysis of BTEX, PHC F1 to F4 and MTBE;
- Pre-injection groundwater monitoring and sampling of the nine (9) on-site monitoring wells (MW-401 to MW-405 and MW-501 to MW-504) and submitting groundwater samples for laboratory analysis of BTEX, PHC F1 to F4 and MTBE to provide a baseline for comparison to post-injection results;
- In-situ injections of sodium persulfate via eight (8) injection points located in the vicinity of monitoring wells MW-401 and MW-402 to remediate groundwater impacts of benzene and MTBE;
- Evaluating soil and groundwater analytical results to the applicable generic standards using the approach prescribed by O. Reg. 153/04. Site condition standards selected for use at the site correspond to the full depth generic site condition standards for medium to fine textured soil and industrial/ commercial/community land use in a potable ground water condition (i.e., Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition; MOE, 2004);
- Completion of quarterly groundwater sampling events for the nine (9) newly installed monitoring wells, until the analytical results from four (4) consecutive events meet the applicable standards under O.Reg. 153.04., and the requirements for filing an RSC; and,

- Preparing a report to document findings and to meet the requirements of filing of an RSC.

The Phase II ESA sampling locations, as documented in the Groundwater Remedial report, are shown in Figure D.

4.2 Media Investigated

As documented in the Groundwater Remediation report (Appendix A), the media investigated during this investigation included soil and groundwater. The sampling plan for soil and groundwater, including the rationale for sample analysis, is also included in the Groundwater Remediation report in Appendix A.

4.3 Phase I Conceptual Site Model

Figure C illustrates the Phase I Conceptual Site Model (CSM) for the Phase I Study Area, including areas of potentially contaminating activities within the Phase I Study Area and identified APECs.

There were no water bodies or areas of natural significance located within the Phase I Study Area. The nearest water body is a tributary of Fourteen Mile Creek, located approximately 7.5 km south of the site. Regional groundwater flow is expected towards the south-southeast.

No utilities that could potentially serve as a preferential migration pathway were identified at the site.

The topography of the site is generally flat. A post (soil) remediation investigation indicated potential groundwater mounding related to the presence of granular fill material within the remedial excavation. Based on the groundwater monitoring and elevation data from the site, groundwater flow is expected to be towards south and east of the site (SLE, 2012a).

Based on the information from the Municipality of Oakville and MOE well records, groundwater is believed to be used as a potable water supply within 250 m of the boundaries of the site.

4.4 Deviations from Sampling Analysis Plan

In general, the investigation was conducted in accordance with the sampling and analysis plan as indicated in the Groundwater Remediation report (Appendix A).

4.5 Impediments

No impediments were encountered during the implementation of the groundwater remediation program.

5. INVESTIGATION METHOD

5.1 General

A site specific health and safety program was implemented by SLE during borehole drilling/monitoring well installation and groundwater monitoring and sampling programs.

Geo-Environmental Drilling Inc. (GEDI) of Milton, Ontario completed the drilling and monitoring well installation program, while Vertex Environmental Inc. (Vertex) of Cambridge, Ontario completed the chemical injection program.

Vertex completed chemical oxidation injections under their Ministry of the Environment (MOE) mobile Certificate of Approval (CofA; Air) No.1946-758KAJ.

The work program was completed by SLE field staff using field and laboratory analysis protocols based on O.Reg. 153/04 (as amended), "Guide for Completing Phase Two Environmental Site Assessment under O. Reg. 153/04 (MOE, 2011b) and standard operating procedures (SOPs) described in the SLE Field Work Guidance Manual (SLE, 2010).

The investigation method is described in detail in the Groundwater Remediation report in Appendix A.

6. REVIEW AND EVALUATION

6.1 Geology

Borehole and monitoring well logs, as well as geologic cross-sections of the site are provided in the Remedial report in Appendix A.

The topography of the site is generally flat. The site elevation ranges from approximately 99.34 m to 100.20 m, relative to an assumed datum on a sanitary sewer manhole cover in the southeast corner of the site and assigned elevation to 100.00 m above sea level (asl).

Soil and groundwater investigations completed on the site prior to the soil remediation program completed in 2008-2009 indicated that the overburden soil type on site was comprised of sand, gravel and silty clay, overlying shale bedrock. Some coarse-grained fill was observed as surface cover during the site investigation. Following the completion of the remedial excavation in 2008-2009, the remedial soil excavation, which encompassed the southern portion of the site, was back filled with clear stone, native and/or imported granular fill material.

6.2 Groundwater Elevations and Flow Direction

Following completion of the groundwater remediation program, seven (7) post-remedial groundwater monitoring and sampling events were completed at the site; the results of which are summarized in the Groundwater Remediation report (Appendix A). Evidence of light non-aqueous phase liquid (LNAPL) was not encountered in monitoring wells during the groundwater remediation program, or during the post-remedial monitoring and sampling events, as indicated in Appendix A.

6.3 Groundwater Hydraulic Gradients

Based on a review of the groundwater elevations within the on-site wells, the horizontal gradients across the site were to the east and south.

The vertical hydraulic gradient was not investigated as part of the groundwater remediation program.

6.4 Fine-Medium Soil Texture

Based on historical information, as summarized in the Phase I ESA (SLE, 2012a), the native soil texture at the site was identified as medium to fine textured. Visual observation during drilling program completed as part of this field program supported this conclusion. As discussed in

Section 2.4, and in the Remedial report in Appendix A, fine-medium soil texture was used in determining applicable site condition standards.

6.5 Soil: Field Screening Results

Field observations and results of field screening for soil samples are summarized in the borehole logs as well as figures provided in the Remedial report in Appendix A.

6.6 Soil Quality

Analytical results for soil samples collected from the boreholes BH501 to BH504 are summarized in the Groundwater Remediation report (Appendix A). Sample logs, figures summarizing the soil analytical results locations and depths of samples, and Laboratory Certificates of Analysis for the soil samples analyzed are also included in the Groundwater Remediation report (Appendix A).

As indicated in the Groundwater Remediation report (Appendix A), measured soil concentrations of all analysed parameters (BTEX, PHC F1 to F4 and MTBE) analyzed from BH501 to BH504 well less than the applicable MOE (2004) Table 2 standards. These analytical results support the results of the remedial excavation program completed at the site by Wardrop in 2008-2009, which addressed the historical petroleum hydrocarbon (soil) impacts previously identified on-site.

6.6.1 Chemical and Biological Transformation of Contaminant

Contaminants of concern included petroleum hydrocarbons (BTEX, PHC F1 to F4) and MTBE. Based on the final groundwater concentrations measured at the site, degradation products or end products of hydrocarbon and MTBE biodegradation are expected.

BTEX and PHCs can biodegrade under both aerobic and anaerobic environmental conditions and petroleum hydrocarbon degradation usually produces carbon dioxide, water, and sometimes methane or other simple hydrocarbons. Therefore, chemical and biological degradation products of petroleum hydrocarbons are not potential contaminants of concern.

As documented in the Phase I ESA (SLE, 2012a), soil and groundwater samples from the site were submitted for laboratory analysis of VOCs as part of the Phase II ESA program completed at the site in 2007 by Wardrop, which included both chlorinated solvents (i.e., MTBE) and their degradation products. Neither chlorinated solvents nor their degradation products were identified above laboratory detection limits or the selected MOE (2004) Table 2 standards, with the exception of MTBE.

Tert-butyl alcohol (TBA) has been identified as the primary metabolite of MTBE biodegradation. However, both compounds are subject to the same naturally occurring processes of natural attenuation due to their hydrophilic nature and affinity for biodegradation. Based on the latest groundwater results, the measured concentrations of MTBE are generally well below the MOE (2004) Table 2 standards across the site, indicating that the ISCO program was effective. With regards to the potential for TBA to be present, it is anticipated that TBA will naturally attenuate and degrade similar to the MTBE. Further, there are no current provincial or federal standards for TBA.

6.6.2 Does Soil Serve as a Contaminant Mass for Other Media

Concentrations of the analyzed parameters in the soil samples recovered from BH501 to BB504 were less than the selected MOE 2004 Table 2 standards, and as such the on-site soils are not considered likely to serve as mass for contamination of on-site groundwater. In addition, the offsite soils along the east and south property boundaries, which may be impacted, are not considered likely to serve as mass for contamination of on-site groundwater, as the groundwater flow across the site is to the east and south. There is no sediment on-site.

6.6.3 Evaluation of Light or Dense Non-Aqueous Liquids (Soil)

The MOE generic standards, including the MOE Table 2 standards selected for use at this site, were established considering the potential presence of free phase (non-aqueous) product and as such concentrations of contaminants less than the MOE Table 2 standards are unlikely to predict the presence of free phase product. Since concentrations of all analysed parameters in all soil samples that remained on-site were less than the MOE (2004) Table 2 standards, soil results do not suggest the potential presence of non-aqueous liquids.

6.7 Groundwater Quality

Analytical results for groundwater samples, including well screen intervals and sampling methodology are summarized in the Groundwater Remediation report (Appendix A).

As indicated in the Groundwater Remediation report (Appendix A), concentrations of all analysed parameters in groundwater samples collected during the last four (4) sampling events completed as part of the post-groundwater remediation work program met the selected MOE (2004) Table 2 standards. In addition, no free phase petroleum hydrocarbon product was identified during any of the groundwater monitoring and sampling events conducted as part of the field work.

6.7.1 Chemical and Biological Transformation of Contaminant

As indicated in Section 6.6.1, no significant by-products or end products associated with the biodegradation of the contaminants of concern (BTEX, PHC F1 to F4 and MTBE) are expected.

6.7.2 Evaluation of Light or Dense Non-Aqueous Liquids (Groundwater)

As indicated in Appendix A, measureable phase (non-aqueous) product or sheen was not detected in any monitoring wells during the groundwater monitoring and sampling completed as part of the Groundwater Remediation program.

6.8 Sediment Quality

Sediment sampling was not conducted as part of this groundwater remediation program as there are no water bodies on the site.

6.9 Quality Assurance and Quality Control Results

A detailed discussion of the results of laboratory and field QA/QC analyses is included in the Remedial report in Appendix A. No field or laboratory QA/QC issues were identified that would affect the overall results of the assessment findings.

6.10 Phase II Conceptual Site Model

The Phase II Conceptual site model is described below and summarized in Figure E.

Areas of Potentially Contaminating Activities and Potential Environmental Concerns

The areas investigated included the areas of former petroleum hydrocarbon handling activities located in the southern portion of the site.

Physical Setting of the Site

- Stratigraphy:
 - Sand/gravel fill underlain silty clay.
- Hydrogeological settings:
 - Shallow groundwater flow direction determined to be to the east and south.
- Approximately depth to rock:
 - Approximately 3.6 m to 4.5 m below grade.

-
- Approximately depth to water table:
 - 0.55 m to 2.03 m below grade.
 - Areas where soil has been brought from another property:
 - Southern portion of the site, including former tank nest area and former pump island areas.
 - Approximate locations of proposed buildings and other structures:
 - Unknown.
 - Approximate locations of utilities and other subsurface structures:
 - No utilities/subsurface structures present on-site.

Contaminants Present at the Site

- Areas where contaminants are present above the MOE (2004) Table 2 standards:
 - None.

Cross-section Showing Contaminants Present at the Site

Cross-sections showing geological and hydrogeological settings at the site are provided in the Groundwater Remediation report in Appendix A. Concentrations of all analyzed parameters in analyzed soil and groundwater samples met the selected MOE (2004) Table 2 standards.

7. CONCLUSIONS

SNC-Lavalin Environment (SLE), Division of SNC-Lavalin Inc., was retained by Shell Canada Products (Shell) to conduct a pre-remedial assessment, a groundwater remedial program, a post-remedial groundwater assessment and to prepare a Phase II Environmental Assessment (ESA) report for the former Shell retail fuel outlet located at 3005 Dundas Street West, Oakville, Ontario. Field work activities were completed between August 19, 2010 and June 26, 2012. The work program and subsequent results are summarized below:

- Site condition standards selected for use at the Phase II Property correspond to the full depth generic site condition standards for medium to fine textured soil and industrial/commercial/community land use in a potable ground water condition (i.e., Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition; MOE, 2004). A Transition Notice was filed allowing the application of the 2004 standards;
- The Phase II Property was operated as a retail fuel outlet and automotive service station from the mid 1960s up to its decommissioning in 2007. Petroleum hydrocarbon (PHC) and MTBE impacts to soil identified on the site were addressed through remedial excavation programs between 2008 and 2009. Residual impacts to groundwater (concentrations of benzene and MTBE above the MOE 2004 Table 2 standards) were identified in two monitoring wells (MW-401 and MW-402) located in the southern portion of the site following completion of the remedial excavation programs;
- It was determined in consultation with Shell to implement an Insitu Chemical Oxidation ISCO program within the immediate vicinity of MW-401 and MW-402 to remediate the identified residual groundwater impacts;
- To evaluate soil and groundwater conditions near MW401 and MW-402 prior to the ISCO, four (4) boreholes (BH-501 to BH-504), completed as monitoring wells (MW-501 to MW-504), were drilled in the vicinity of MW-401 and MW-402, to assess the soil and groundwater conditions in these two areas, and to establish that the soil conditions within the vicinity of MW-401 and MW-402 were unlikely to contribute to potential groundwater impact prior to the implementation of the ISCO program;
- The analytical results of soil samples collected from all four (4) boreholes and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE, indicated measured concentrations of the analyzed parameters below the MOE Table 2 standards;
- The ISCO included injections of sodium persulphate via eight (8) injection points located in the vicinity of monitoring wells MW-401 and MW-402 to remediate groundwater impacts of benzene and MTBE;
- Quarterly groundwater sampling events (post-groundwater remediation) were completed at the site from December 9, 2010 to June 26, 2012 for the nine (9) newly installed monitoring wells, until the analytical results from four(4) consecutive events met the applicable standards under O.Reg. 153/04. Groundwater samples were recovered from each well and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE; and,

- Measured concentrations of the contaminants of concern (benzene and MTBE) satisfying the MOE 2004 Table 2 standards were identified during the latest four (4) consecutive quarterly sampling events conducted between September 9, 2011 and June 26, 2012.

Based on the analytical results for the latest four (4) consecutive quarterly groundwater sampling events, which satisfied the MOE 2004 Table 2 standards, a Record of Site Condition can be filed for the site.

7.1 Conclusions

The applicable MOE (2004) Table 2 site condition standards were met in analysed soil and groundwater samples from the site at the conclusion of the work program. Maximum post-remedial concentrations for the contaminants of concern (BTEX, PHC F1 to F4 and MTBE) analyzed in soil and groundwater are summarized in Table A and Table B, respectively.

Site remediation has been completed and an RSC can be filed for the site.

7.2 QP Statement

The Phase II ESA was supervised by undersigned qualified person(s) and all findings and conclusions of the Phase II ESA are included in the report.

7.3 Disclaimer

The statements made in this report are based solely on the information obtained to date as part of the above referenced study. SNC-Lavalin Environment, Division of SNC-Lavalin Inc. (SLE) has used its professional judgement in assessing this information and formulating its opinion and recommendations. New information may result in a change in this opinion. The mandate at SLE is to perform the tasks prescribed by the Client with the due diligence of the profession. No other warranty or representation, expressed or implied, as to the accuracy of the information or recommendations is included or intended in this report. The results of this study should in no way be construed as a warranty that the subject property is free from any and all contamination.

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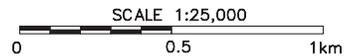
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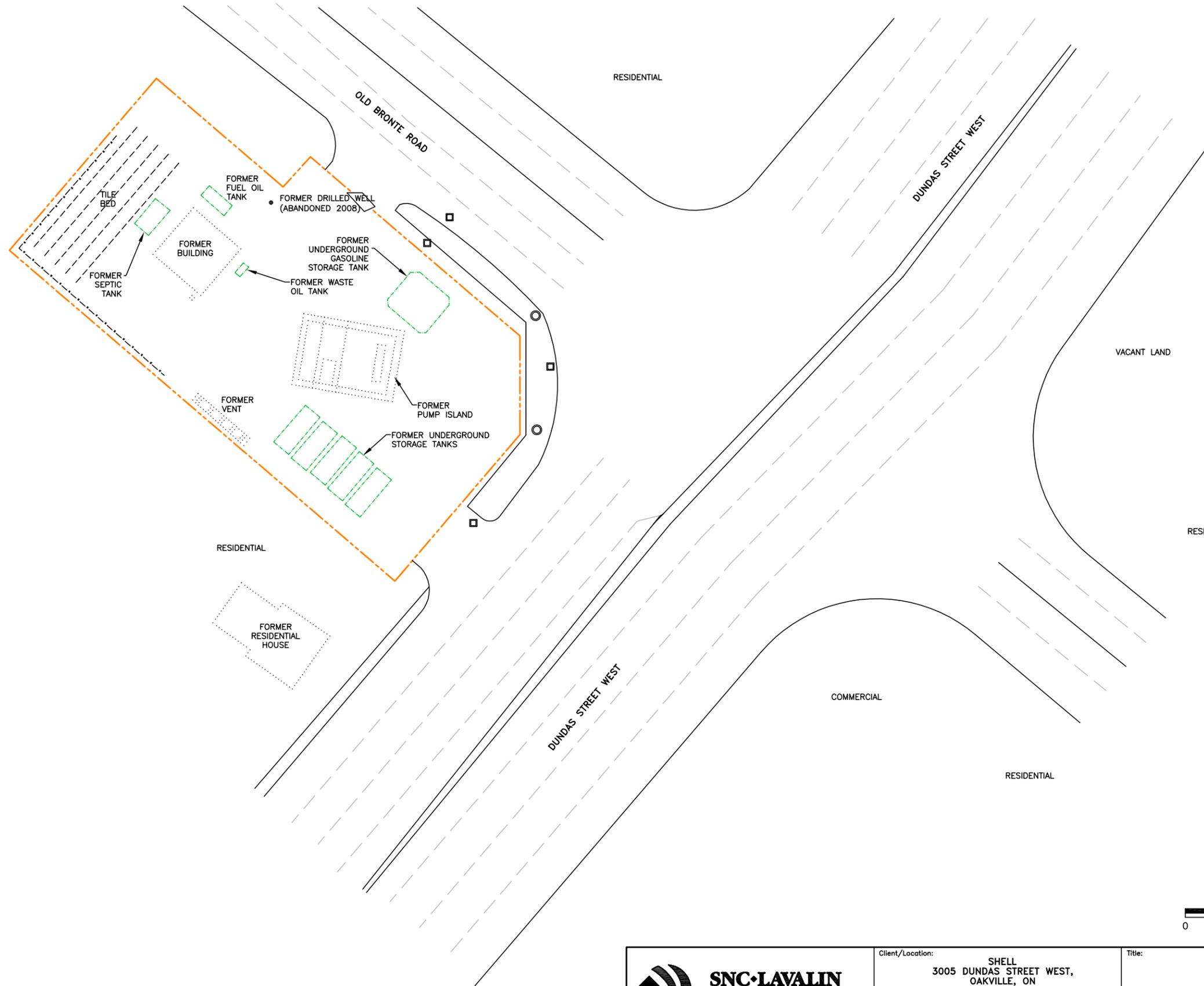
FIGURES



SOURCE: SCHWERDT GRAPHIC ARTS LTD., (MapArt), 2007 EDITION

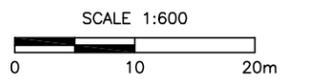


 SNC-LAVALIN Environment	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: SITE LOCATION PLAN	
	Project No: S09125	Filename: 21FOA_S09125	Date: NOVEMBER 2012	Dwg No:
	Drawn: AG	Verified:	Project Manager:	FIGURE A



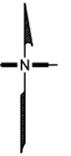
LEGEND	
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES

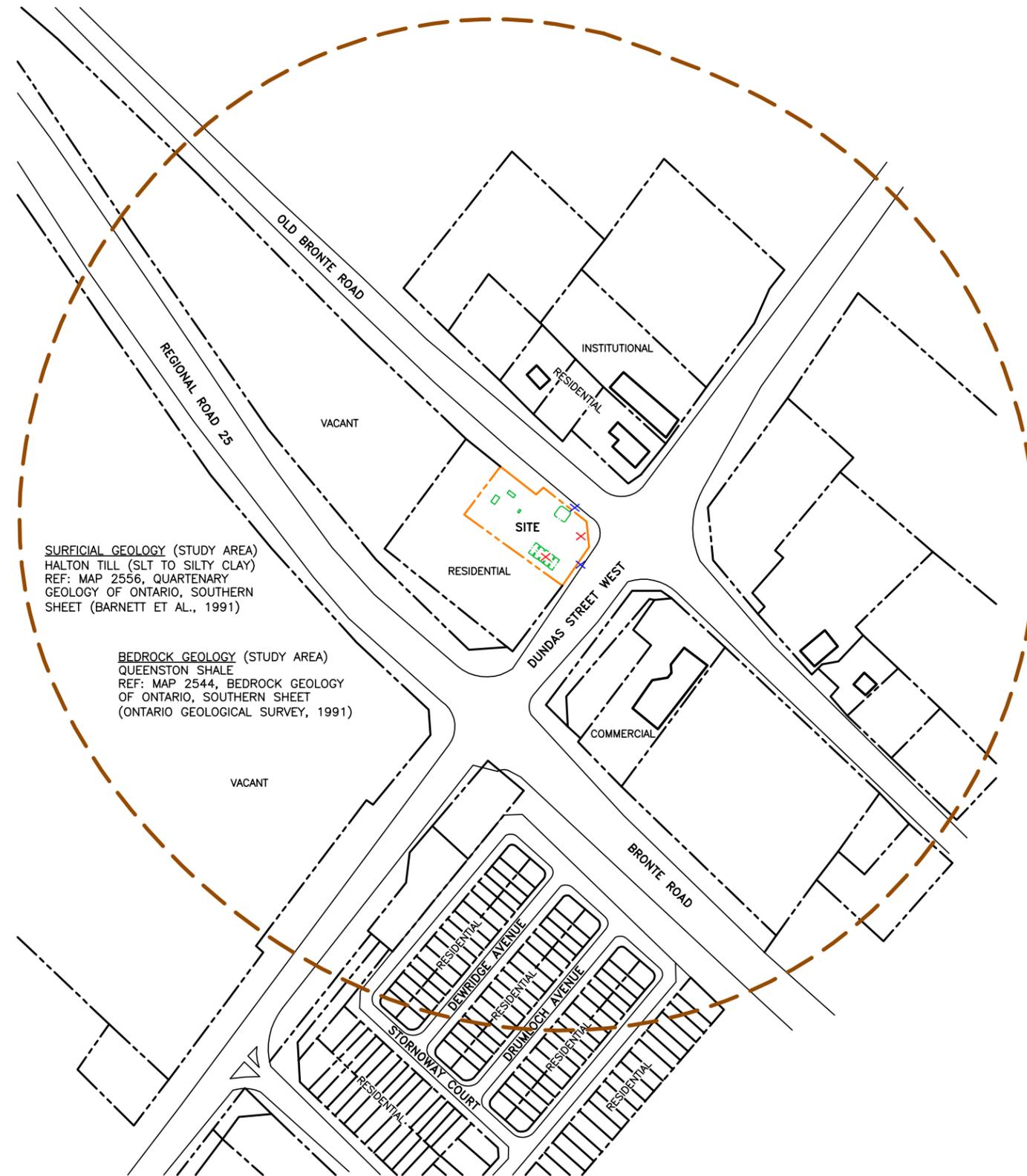


	Client/Location: SHELL 3005 DUNDAS STREET WEST, OAKVILLE, ON		Title: HISTORICAL SITE LAYOUT	
	Project No: S09125	Filename: 21F0B_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE B
	Drawn: DM	Verified:	Project Manager:	

FILENAME: F:\2009\091xx\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\021\21F0B_S09125.dwg



ON PHASE I STUDY PROPERTY ARE THERE?		
EXISTING STRUCTURES/BUILDINGS	NO	DEMOLISHED
DRINKING WATER WELLS	NO	DECOMMISSIONED
IN PHASE I STUDY AREA ARE THERE?		
ROADS	YES	SEE FIGURE
WATER BODIES	NO	
AREA OF NATURAL SIGNIFICANCE	NO	
POTENTIAL CONTAMINATING ACTIVITIES	YES	DECOMMISSIONED GASOLINE RETAIL/AUTOMOTIVE SERVICE FACILITY
TANKS	NO	ONSITE REMOVED, SEE FIGURE FOR FORMER LOCATIONS
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN	YES	<p>ON-SITE: CONCENTRATIONS OF MTBE/BENZENE (GROUNDWATER) ABOVE MOE TABLE 2 STANDARD IN SOUTH PORTION OF SITE</p> <p>OFF-SITE: RESIDUAL SOIL AND GROUNDWATER IMPACTS ALONG THE EAST AND SOUTH PROPERTY LINES (BTEX, PHC F1 to F4, MTBE)</p>



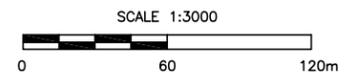
LEGEND	
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN (ON-SITE)
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN (OFF-SITE)
	PROPERTY LINE
	SITE PROPERTY LINE
	PHASE I STUDY AREA (250m)
	FORMER UNDERGROUND TANK

NOTE(S):

- SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- "m" : METRES

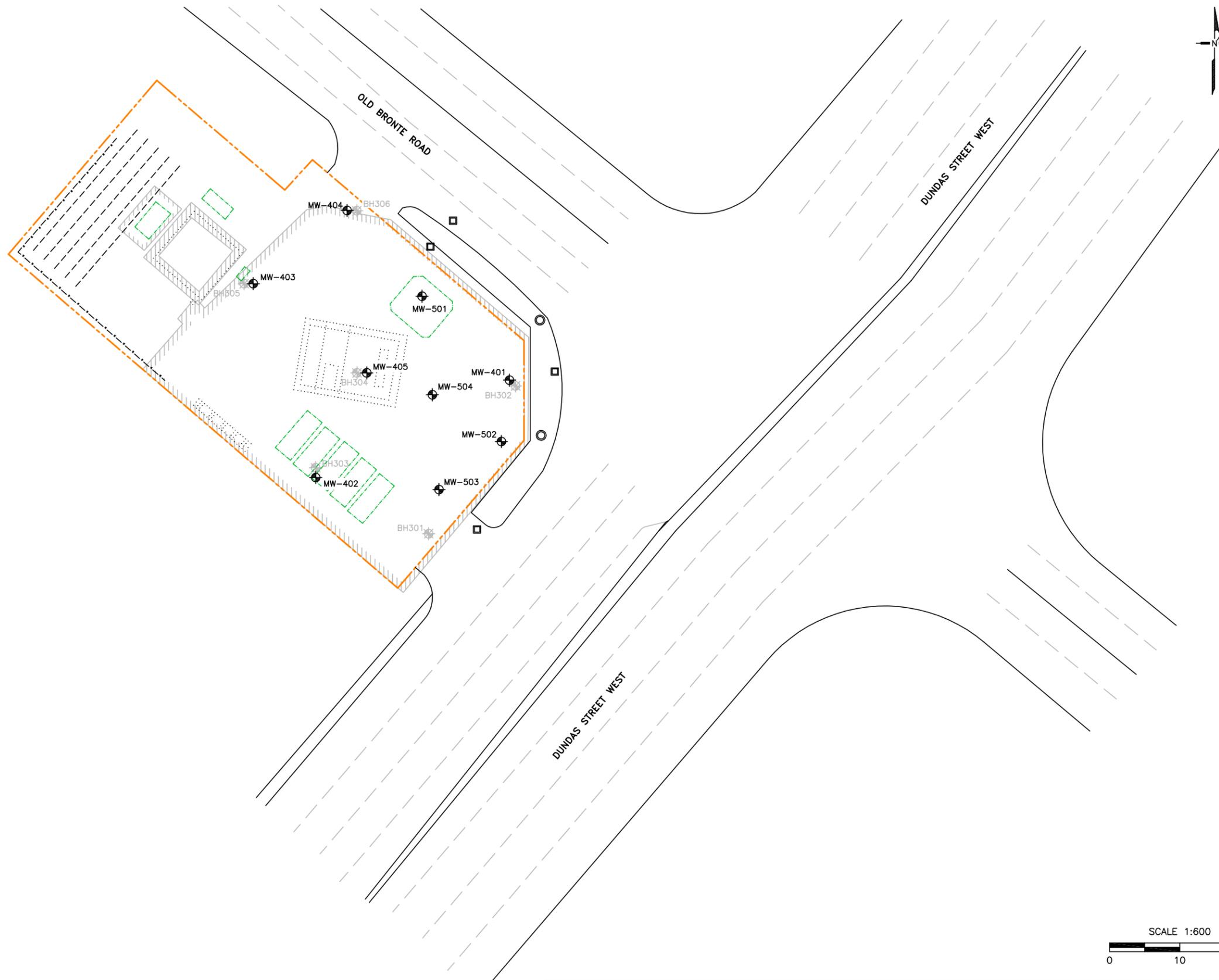
SOURCE(S):

- ZONING BYLAW, TOWN OF OAKVILLE, 2010



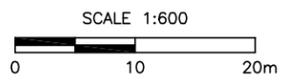
	Client/Location: SHELL 3005 DUNDAS STREET WEST, OAKVILLE, ON		Title: CONCEPTUAL SITE MODEL SHOWING AREAS OF POTENTIAL ENVIRONMENTAL CONCERN	
	Project No: S09125	Filename: 21FOC_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE C
Drawn: AG	Verified:	Project Manager:		

FILENAME: F:\2009\091xx\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\021\21FOC_S09125.dwg

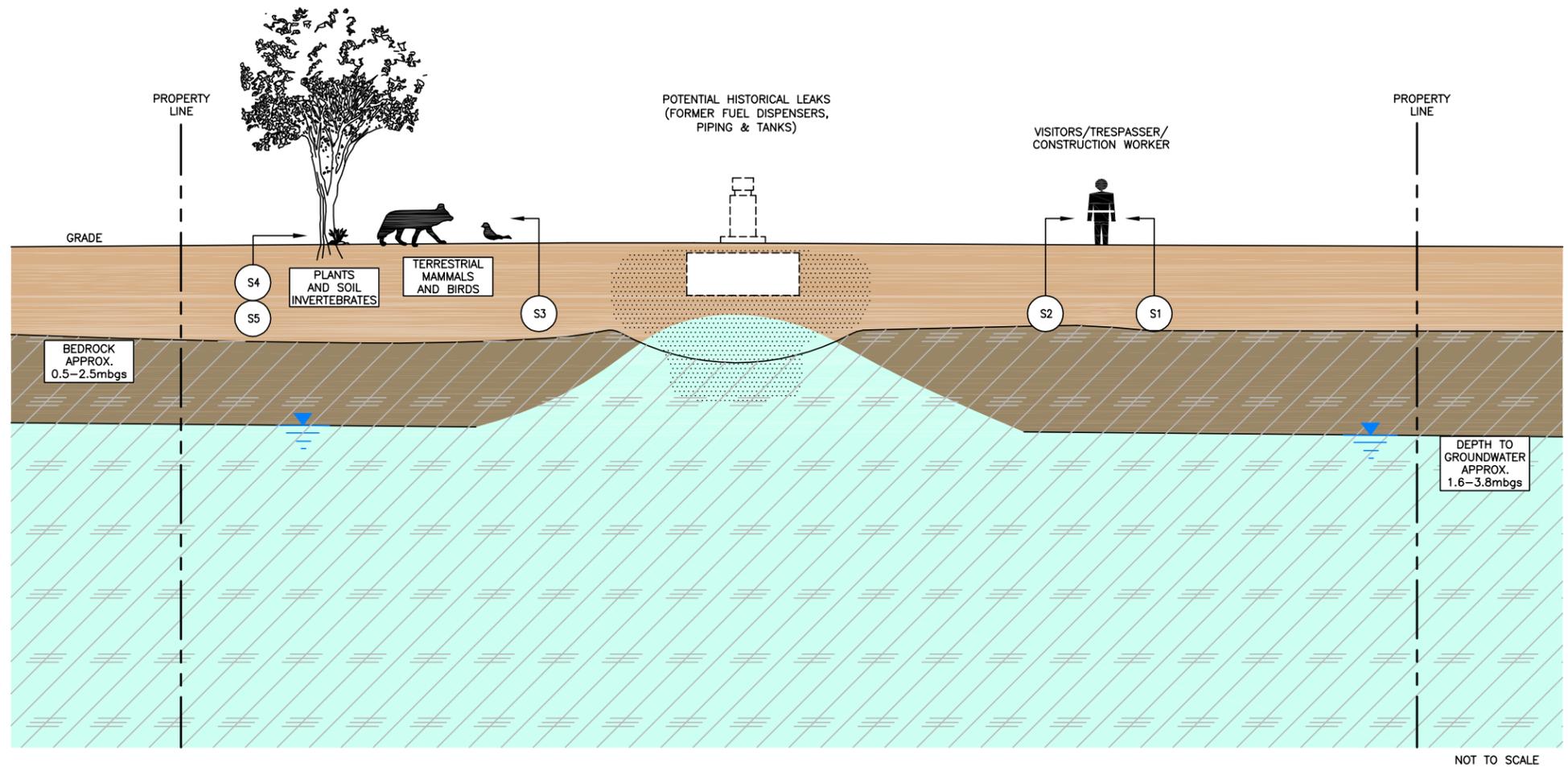


LEGEND	
	MONITORING WELL
	DECOMMISSIONED MONITORING WELL
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	PREVIOUSLY EXCAVATED AREA
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES
 4. SITE MONITORED JUNE 2012



	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: SAMPLING LOCATION PLAN	
	Project No: S09125	Filename: 21F0D_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE D
	Drawn: DM	Verified:	Project Manager:	



LEGEND

	GROUNDWATER ELEVATION		BEDROCK
	INCIDENTAL INGESTION AND DERMAL CONTACT – VISITORS/TRESPASSERS/CONSTRUCTION WORKER		SOIL
	VAPOUR INHALATION – VISITORS/TRESPASSERS/CONSTRUCTION WORKER		SOIL EXCEEDING SELECTED MOE STANDARDS
	INGESTION/DIRECT CONTACT – MAMMALS AND BIRDS		GROUNDWATER
	ROOT CONTACT/ABSORPTION – PLANTS		GROUNDWATER EXCEEDING SELECTED MOE STANDARDS
	DERMAL CONTACT/INGESTION – SOIL INVERTEBRATES		GROUNDWATER IN BEDROCK

NOTE(S):
 1. NOT TO SCALE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS

	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: PHASE II ENVIRONMENTAL SITE ASSESSMENT CONCEPTUAL SITE MODEL	
	Project No: S09125	Filename: 21FOE_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE E
	Drawn: DM	Verified:	Project Manager:	

TABLES

TABLE A

**MAXIMUM POST-REMEDIAL SOIL CONCENTRATIONS
3005 Dundas Street West, Oakville, ON**

Parameters	RDL	Units	Maximum Concentration	Location Found	SLE Sample ID No.	Sampling Depth (mbg)
<i>BTEX</i>						
Benzene	0.02	µg/g	0.015	BH-501	BH-501-6B	4.1 - 4.4
Toluene	0.02	µg/g	0.016	BH-501	BH-501-6B	4.1 - 4.4
Ethylbenzene	0.02	µg/g	0.011	BH-501	BH-501-6B	4.1 - 4.4
Xylenes	0.02	µg/g	0.017	BH-503	BH-503-2	0.8 - 1.4
<i>Petroleum Hydrocarbon (PHC) Fractions</i>						
PHC F1	10	µg/g	25	BH-501	BH-501-3	1.0 - 1.5
PHC F2	10	µg/g	13	BH-501	BH-501-3	1.0 - 1.5
PHC F3	10	µg/g	58	BH-503	BH-503-2	0.8 - 1.4
PHC F4	10	µg/g	500	BH-501	BH-501-3	1.0 - 1.5
<i>VOCs*</i>						
Methyl t-butyl ether (MTBE)	0.002	µg/g	0.39	BH-502	BH-502-5	3.0 - 3.6

µg/g - micrograms per gram

RDL - Reportable Detection Limit

< - maximum concentration below the RDL

mbg - meters below grade

*Maximum concentrations of additional analyzed parameters (i.e. other VOCs, Metals, and PAHs) not included in the Groundwater Remediation Program are included in the RSC Submission.

TABLE B

MAXIMUM POST-REMEDIAL GROUNDWATER CONCENTRATIONS
3005 Dundas Street West, Oakville, ON

Parameters	RDL	Units	Maximum Concentration	Location Found	SLE Sample ID No.	Sampling Depth (mbg)
<i>BTEX</i>						
Benzene	0.20	µg/L	1.2	MW-401	MW-401	1.2 - 3.6
Toluene	0.20	µg/L	0.3	MW-502	MW-502	1.1 - 3.8
Ethylbenzene	0.20	µg/L	0.2	MW-401	MW-401	1.2 - 3.6
Xylenes	0.20	µg/L	0.8	MW-401	MW-401	1.2 - 3.6
<i>Petroleum Hydrocarbon (PHC) Fractions</i>						
PHC F1	25	µg/L	35	MW-401	MW-401	1.2 - 3.6
PHC F2	100	µg/L	<100	MW-401	MW-401	1.2 - 3.6
PHC F3	100	µg/L	<100	All Monitoring Wells	Various	Various
PHC F4	100	µg/L	<100	All Monitoring Wells	Various	Various
<i>VOCs*</i>						
Methyl t-butyl ether (MTBE)	0.2	µg/L	620	MW-503	MW-503	1.1 - 3.8

µg/L - micrograms per litre

RDL - Reportable Detection Limit

< - maximum concentration below the RDL

mbg - meters below grade

*Maximum concentrations of additional analyzed parameters (i.e. other VOCs, Metals, and PAHs) not included in the Groundwater Remediation Program are included in the RSC Submission.

APPENDIX A

GROUNDWATER REMEDIATION REPORT

SHELL CANADA PRODUCTS

**3005 DUNDAS STREET WEST
OAKVILLE, ON (C05875)
GROUNDWATER REMEDIATION REPORT**

REF.: S09125

THIS REPORT IS SUBJECT TO A DISCLAIMER BY SHELL.



**Submitted:
November 2012**

**Prepared by:
SNC-Lavalin Environment
Toronto, Ontario**



**SNC•LAVALIN
Environment**

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1. EXECUTIVE SUMMARY

SNC Lavalin Environment (SLE), Division of SNC-Lavalin Inc. was retained by Shell Canada Products (Shell) to complete a Groundwater Remedial Program, including Insitu Chemical Oxidation (ISCO) at the former retail fuel and automotive service station located at 3005 Dundas Street West, Oakville, Ontario (the Phase Two Property or the site). The site measures approximately 0.6 acres (0.2 ha) and is located on the northwest corner of Old Bronte Road and Dundas Street West. The site was formerly developed as a gasoline retail and automotive serving station in the mid 1960s; decommissioned in 2007. A remedial excavation program was completed at the site by Wardrop Engineering Inc. between 2008 and 2009.

The purpose of the Remedial Program was to address residual groundwater impacts of benzene and MTBE identified in the southern portion of the Phase II Property, and to satisfy the requirements for filing of a Record of Site Condition (RSC). The work program and results are summarized below:

- Site condition standards selected for use at the Phase II Property correspond to the full depth generic site condition standards for medium to fine textured soil and industrial/commercial/community land use in a potable ground water condition (i.e., Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition; MOE, 2004). A Transition Notice was filed allowing the application of the 2004 standards;
- Petroleum hydrocarbon (PHC) and MTBE impacts to soil identified on the site were addressed through soil remediation (excavation) programs between 2008 and 2009. Residual impacts to groundwater (concentrations of benzene and MTBE above the MOE 2004 Table 2 standards) were identified in two monitoring wells (MW-401 and MW-402) located in the southern portion of the site following completion of the remedial excavation programs. The remediation of these residual groundwater impacts was to be achieved using an ISCO program;
- Four (4) boreholes (BH-501 to BH-504), completed as monitoring wells (MW-501 to MW - 504), were drilled in the vicinity of MW-401 and MW-402 to assess the soil and groundwater conditions in these two areas. These boreholes were completed to verify the results from previous investigations, and to establish that the soil conditions within the vicinity of MW-401 and MW-402 were unlikely to contribute to potential groundwater impact prior to the implementation of the ISCO program;
- The analytical results of soil samples collected from all four (4) boreholes and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE, indicated measured concentrations of the analyzed parameters were below the MOE Table 2 standards;
- The ISCO program included injections of sodium persulphate via eight (8) injection points located in the vicinity of monitoring wells MW-401 and MW-402 to remediate groundwater impacts of benzene and MTBE;

-
- Quarterly groundwater sampling events (post groundwater remediation) were completed at the site from December 9, 2010 to June 26, 2012 for the nine (9) newly installed monitoring wells, until the analytical results from four (4) consecutive events met the applicable standards under O.Reg. 153/04. Groundwater samples were recovered from each well and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE; and,
 - Measured concentrations of the contaminants of concern (benzene and MTBE) satisfying the MOE 2004 Table 2 standards were identified during the latest four (4) consecutive quarterly sampling events conducted between September 9, 2011 and June 26, 2012.

Based on the analytical results for the latest four (4) consecutive quarterly groundwater sampling events, which satisfied the MOE 2004 Table 2 standards, a Record of Site Condition can be filed for the site.

2. INTRODUCTION

SNC-Lavalin Environment, Division of SNC-Lavalin Inc. (SLE) was retained by Shell Canada Products (Shell) to complete a Groundwater Remediation Program at the former Shell Outlet (C05875) located at 3005 Dundas Street West, Oakville, Ontario (herein referred to as the Phase II Property or site).

The purpose of the Remediation Program was to remediate the residual groundwater impact identified in the southern portion of the Phase II Property to satisfy the requirements for filing of a Record of Site Condition (RSC).

Field work activities associated with the Remedial Program were completed between August 19, 2010 and June 26, 2012.

2.1 Site Description and Background

The Phase II Property measures approximately 0.6 acres (0.2 ha) and is located on the northwest corner of Old Bronte Road and Dundas Street West (Figure 1). The legal description of the site is PT LT 31, CON 1 Trafalgar, North of Dundas Street, As in TW29654, Except PT1, 2OR187 and PM856; Oakville/Trafalgar. The Phase II Property is currently vacant. A copy of the legal survey of the site is provided as Appendix A.

The Phase II Property operated as a service station and retail fuel facility from the mid 1960. The retail fuel facility operations terminated in 2007, and the associated site infrastructure was decommissioned. A soil remediation program was implemented in 2008/2009. Site infrastructure at the time of decommissioning included: five (5) 22,700 L single wall fibreglass underground storage tanks (USTs), used for the storage of gasoline, located on the southwest corner of the site, a concrete apron, kiosk, dispensers, associated piping and vents. In addition, the former service station building was also demolished at this time, including the removal of a former fuel oil UST, a concrete septic tank and associated tile bed. A former waste oil UST was previously removed from the site. The locations of historical and current site infrastructure are provided in Figure 2, and photos of the site are included in Appendix G.

Surrounding land use on adjacent properties included:

- North:** Old Bronte Road with Residential housing development beyond (Zoning Bylaw 1984-063 - Agricultural Zone "A").
- South:** Residential housing development (Zoning Bylaw 1984-063 - Residential Zone "R7&R8").
- East:** Dundas Street West with Commercial developments (plaza) beyond (Zoning Bylaw 1984-063 - Commercial Zone "C4").

West: Vacant Land (Zoning Bylaw 1984-063 - Agricultural Zone "A") with Bronte Road beyond.

The topography of the Phase II Property is generally flat. The site is unpaved and drainage is via infiltration and/or overland flow to ditches adjacent to the south and east property boundaries. Prior to the soil remediation program, the depth to groundwater on site ranged from 0.23 m to 3.85 m bgs (Wardrop, 2008b). Post (soil) remediation investigation indicated that the depth to ground water ranged from 1.02 m to 1.78 m below ground surface (bgs) on site (Aqua Terre, 2009). Groundwater mounding was observed on site, post (soil) remediation, and likely associated with the backfill material in the southern portion of the site. As such, shallow groundwater flow is expected to flow away (off-site) to the south and east.

There were no water bodies or areas of natural significance located within the 250 m radius of the Phase II Property. The nearest water body is a tributary of Fourteen Mile Creek, located approximately 7.5 km south of the site. Regional groundwater flow is expected towards the south-southeast.

There is no municipal water service to the Phase II Property or surrounding properties. Properties located within 250 m of the site use private potable water wells.

2.2 Applicable Site Condition Standard

Site condition standards for use at the Phase II Property were selected from the Ontario Ministry of the Environment Soil, Ground Water and Sediment Standards for Use Under Part XV.1 of the Environmental Protection Act using the approach described by O. Reg. 153/04. The following site specific information was used to select the standards for the site:

- The site is not, does not include, is not adjacent to and is not part of an area of natural significance, nor does it include land that is within 30 m of an area of natural significance;
- Soil at the site has pH values within the 5 to 9 range, and 5 to 11 range for subsurface soil;
- This site is a shallow soil property as defined by Section 43.1 of O. Reg. 153/04, as amended, since:
 - 1/3 or more of the site area has less than 2 m of overburden;
- The property does not include nor is it adjacent to a water body, nor does it include land that is within 30 m of a water body;
- The full depth restoration option is assumed;
- Restoration of groundwater to potable levels is required since:

-
- There is no municipal water service to the site or surrounding properties. The subject property and all other properties located, in whole or in part, within 250 metres of the boundaries of the property, use private potable wells;
 - The land use at the site is zoned industrial and it is projected to remain as such; and,
 - Overburden material investigated at the site comprised predominantly clayey silt and fine sand. The site soils may be classified as medium to fine textured because more than two thirds of the soil (measured by volume) at the property consists of soil that contains more than 50 percent by mass of particles that are 75 µm or smaller in mean diameter (Wardrop 2008b).

The work program for the latest four (4) consecutive quarterly groundwater sampling events was conducted based on Ontario Regulation (O. Reg.) 153/04, as amended. Although changes to the standards came into effect on July 1, 2011, a transition notice to allow filing for RSC under the MOE 2004 standard for this site was filed on December 21, 2010. On this basis, groundwater analytical results obtained during the 2011 and 2012 monitoring and sampling programs were compared to the selected MOE 2004 Table 2 standards (i.e. Table 2: Generic Site Condition Standards in a Potable Groundwater Condition, MOE, 2004).

2.3 Report Layout

Section 3 of this report documents the scope of the investigation and Section 4 documents the investigation methods. Remedial actions, presence of free flowing product, excavated soils, confirmation sampling and analysis are documented in Sections 5, 6, 7 and 8, respectively. The conclusions are provided in Section 9. A disclaimer and references are provided in Sections 10 and 11, respectively.

3. SCOPE OF THE INVESTIGATION

3.1 Past Investigations

Based on a review of the Phase I ESA conducted by SLE in 2010 and updated in 2012 (SLE, 2012), a summary of current and past uses of the Phase One Property is provided below:

Past Site Use (include past development, activities)	Current and Proposed Site Use (include current development and activities)
<ul style="list-style-type: none"> • First developed use of property mid-1930's (use unknown) • Retail Fuel Facility with an Automotive Service Garage (mid-1960's to 2007) • Decommissioned and remediated (2008 to 2009) 	<ul style="list-style-type: none"> • Vacant land • Future development unknown

Historical operations of a retail fuel outlet and automotive service garage on site were the only potential contaminating activities identified prior to the soil remediation activities completed at the site in 2008-2009. The site has been vacant since decommissioning and soil remediation activities were completed. No other potential contaminating activity in the vicinity is suspected to affect the environmental conditions of the site.

Two Areas of Potential Environmental Concern (APEC) were identified for the Phase II Property. These APECs are presented on Figure 3 and area summarized below:

APEC and Rationale	Potential Contaminants of Concern (PCOC)	Comments/ Uncertainties
APEC #1 (on-site) Location of former retail fuel outlet and automotive service garage – residual (localized) groundwater impacts identified in southern portion of the property.	<ul style="list-style-type: none"> • Benzene and MTBE – Groundwater 	Results based on available records, reports and historical information
APEC #2 (off-site) Dundas Street West and Old Bronte Road allowances south and east of the site – residual soil and groundwater impacts	<ul style="list-style-type: none"> • BTEX, PHC F1 to F4 – Soil and/or Groundwater • MTBE – Groundwater 	

3.2 Overview of Current Site Investigation

The objectives of this work program were to:

- To remediate residual groundwater impacts identified in the southern portion of the Site (SLE, 2012a); and,
- Complete a post-remedial groundwater sampling program to assess the groundwater conditions of the Site, and to satisfy the requirements for filing of a record of site condition (RSC), and in support of potential property transfer.

To meet the objectives described above, SLE completed the following work:

- Drilling of four (4) boreholes (BH-501 to BH-504), completed as monitoring wells (designated as MW-501 to MW-504), in the vicinity of MW-401 and MW-402, to assess the soil and groundwater conditions in these two areas, and to establish that the soil conditions within the vicinity of MW-401 and MW-402 were unlikely to contribute to potential groundwater impact prior to the implementation of the ISCO program;
- Collection of soil samples from all four (4) boreholes and submission of selected soil samples for laboratory analysis of BTEX, PHC F1 to F4 and MTBE;
- Pre-injection groundwater monitoring and sampling of the nine (9) on-site monitoring wells (MW-401 to MW-405 and MW-501 to MW-504) and submitting groundwater samples for laboratory analysis of BTEX, PHC F1 to F4 and MTBE to provide a baseline for comparison to post-injection results;
- In-situ injections of sodium persulphate via eight (8) injection points located in the vicinity of monitoring wells MW-401 and MW-402 to remediate groundwater impacts of benzene and MTBE;
- Evaluating soil and groundwater analytical results to the applicable generic standards using the approach prescribed by O. Reg. 153/04. Site condition standards selected for use at the site correspond to the full depth generic site condition standards for medium to fine textured soil and industrial/ commercial/community land use in a potable ground water condition (i.e., Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition; MOE, 2004);
- Completion of quarterly groundwater sampling events for the nine (9) newly installed monitoring wells, until the analytical results from four (4) consecutive events meet the applicable standards under O.Reg. 153.04., and the requirements for filing an RSC; and,
- Preparing a report to document findings and to meet the requirements of filing of an RSC.

3.3 Media Investigated

The media investigated during this investigation included soil and groundwater. No sediment was encountered as part of this investigation.

3.4 Sampling and Analysis Plan

Prior to conducting the work program, a Sampling and Analysis Plan was prepared. In general, the investigation was conducted in accordance with the sampling and analysis plan (Appendix B). No significant deviations were occurred with the sampling analysis plan.

3.5 Impediments

No impediments were encountered during the implementation of the groundwater remediation program.

4. INVESTIGATION METHOD

4.1 General

A site specific health and safety program was implemented by SLE during borehole drilling/monitoring well installation and groundwater monitoring and sampling programs.

Geo-Environmental Drilling Inc. (GEDI) of Milton, Ontario completed the drilling and monitoring well installation program, while Vertex Environmental Inc. (Vertex) of Cambridge, Ontario completed the chemical injection program.

Vertex completed chemical oxidation injections under their Ministry of the Environment (MOE) mobile Certificate of Approval (CofA; Air) No.1946-758KAJ.

SLE field staff completed site investigation activities using field and laboratory analysis protocols based on O. Reg. 153/04, as amended, "Guide for Completing Phase Two Environmental Site Assessment Under O. Reg. 153/04 (MOE, 2011) and standard operating procedures (SOPs) described in the SNC Field Work Guidance Manual (SLE, 2010).

4.2 Borehole Drilling and Soil Sampling

A total of four (4) boreholes (BH-501 to BH-504) were drilled on site by GEDI on August 19, 2010 under SLE supervision. Drilling was conducted using a truck-mounted CME-75 drill rig, equipped with 0.2 m outside diameter (O.D.) hollow stem augers and split spoon samplers. Boreholes were advanced to a maximum depth of 4.8 m below ground surface (bgs). Borehole/monitoring well locations are shown in Figures 3 and 4. Borehole logs are provided in Appendix C.

A minimum of two (2) soil samples from each borehole were selected, based on OVM readings and field observations (see Section 4.3), for submission to an independent laboratory for chemical analysis of BTEX, PHC F1 to F4 and MTBE.

Excess soil generated during drilling program was removed and disposed off-site by Claybar Contracting Inc. (Claybar) of Dundas, Ontario in accordance with O.Reg.347.

4.3 Field Screening Measurements

Soil samples used for field logging/screening were placed in sealable plastic bags and logged in the field for soil type, moisture content, colour, structure, texture and visual evidence of impact by petroleum hydrocarbons. Maximum headspace vapour readings in the sample bags were

measured using a Gastech Model 1238 organic vapour meter (OVM) operated in methane elimination mode. The Gastech 1238 ME is a dual range hydrocarbon sensor capable of reading 0-500 ppmv and 0-100% LEL with accuracy of +/- 5%. Samples were allowed to equilibrate for approximately ten to fifteen minutes prior to screening.

The OVM was calibrated on a daily basis. The OVM was calibrated in the field to a hexane standard (both 47% LEL and 434 ppmv). Calibration was acceptable if readings were within 10% of the standard. If results were outside the calibration acceptance criteria of 10% adjustments were made in the field until the instrument reading within 10% of the standard value.

Field screening with the OVM was used to qualitatively identify potential “worst case” samples for laboratory submission for identifying the potential presence of contaminants with relatively elevated vapour pressures (e.g. VOCs/F1 PHC). In addition to field screening with the OVM, potential worst case sample selection was based on visible observation of the sample (staining), site geology/hydrogeology and knowledge of contaminant behaviour.

4.4 Groundwater Monitoring Well Installation

Four (4) boreholes described above were completed as monitoring wells (MW-501 to MW-504) on August 19, 2010. Monitoring wells were constructed using 5.1 cm I.D., flush-threaded 1.5 m long PVC well screen and solid riser. Silica sand was placed around the well screen, with a granular bentonite seal placed above the sand pack. Monitoring well locations are provided in Figures 3 and 4, while installation details are provided in Appendix C.

In accordance with O. Reg. 903, as amended, monitoring wells completed as part of this investigation were registered as a cluster under MOE Well Tag #A100935 for MW-510 to MW-504, respectively. A copy of the well record is provided in Appendix D.

4.5 Groundwater Monitoring Well Development

The newly installed monitoring wells were equipped with dedicated sampling equipment including low density polyethylene (LDPE) tubing and inertial foot valves.

To minimize the potential for cross-contamination during well installation, well supplies (including, screen, riser and dedicated LDPE tubing) were removed from protective packaging only immediately prior to use, were handled by workers wearing a new pair of disposable vinyl gloves and by avoiding contact with potentially contaminating materials.

Monitoring well development was conducted on August 25, 2010 for MW-501 to MW-504 by purging approximately three (3) borehole volumes of water (calculated as the volume of

standing water plus the volume of water in the sandpack surrounding the well screen) or purged dry and allowed to recover three (3) times.

4.6 Groundwater: Field Measurement of Water Quality Parameters

According to the O. Reg. 153/04 (as amended), to assess the effectiveness of well development by purging, pH, conductivity and temperature readings are to be measured in purged water using related Instruments. Well development and purging is stopped when readings stabilized (within 10%) and, if possible, when purged water was clear of sediment/turbidity. As such, the monitoring well development completed for MW-501 to MW-502 on August 25, 2010 included regular field measurements of water quality parameters (i.e., pH, conductivity and temperature) to establish that well development had been achieved prior to sampling.

During each groundwater sampling event conducted at the site between August 25, 2010 and June 26, 2012, for all nine (9) monitoring wells (MW-401 to MW-405 and MW-501 to MW-504), the wells were purged before sampling. During the purging process, regular field measurements of pH, conductivity and temperature were taken to establish groundwater equilibrium prior to sampling.

The date of the well development, the time and the purged groundwater volume were recorded in the field log.

4.7 Groundwater: Sampling

The nine (9) on-site monitoring wells were monitored and sampled during a series of events from August 25, 2010 to June 26, 2012 to assess the groundwater conditions at the Phase II Property prior to, during and following the Insitu Chemical Oxidation (ISCO) program.

To assess the influence of the ISCO program on groundwater within the vicinity of MW-401 and MW-402, both of these monitoring wells, as well as MW-502 to MW-504 were monitored for headspace vapours, water level, geochemical field measurements and persulphate concentrations. The monitoring of these wells was conducted prior to injections and during injections (on October 15, 2010), and bi-weekly for a period of four (4) weeks post-injections (on October 29 and November 12, 2010).

In addition, all nine (9) on-site monitoring wells (MW-401 to MW-405 and MW-501 to MW-504) were monitored: on August 25, 2010 (six weeks before injection), and then for seven (7) monitoring events between December 9, 2010 and June 26, 2012. The latest four (4) quarterly monitoring events occurred on September 9, 2011, December 07, 2011, March 22, 2012 and June 26, 2012.

At the time of each monitoring event, headspace vapour readings in each monitoring well were measured with a Gastech 1238ME Organic Vapour Monitor (OVM), operated in methane elimination mode upon the removal of the well cap. Water levels in the monitoring wells were measured relative to the top of riser pipe using a Heron Instrument H.OIL Interface probe. Wells were also examined for the presence of light non-aqueous phase liquid (LNAPL) using the interface probe. Prior to use in each well, the interface probe was washed using Liquinox and rinsed with distilled water to minimize the potential for cross-contamination.

After monitoring well development and purging, groundwater samples were collected from all nine (9) monitoring wells on August 25, 2010, as well as the seven post injection sampling dates between December 9, 2010 and June 26, 2012 using dedicated LDPE tubing and plastic foot valves and/or clear bailers. Samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers as described in Section 5.13.1. Samples were handled as described in Section 5.13.2.

All collected groundwater samples were submitted for analyses of BTEX, PHC fraction F1 to F4 and MTBE.

4.8 Sediment Sampling

Sediment sampling was not conducted as part of this investigation.

4.9 Analytical Testing

Laboratory analyses of soil and groundwater samples were completed by Maxxam Analytics Inc. (Maxxam) of Mississauga, Ontario under contract with Shell Canada Products. Maxxam is accredited by the Standards Council of Canada (SCC).

No grain size analyses were completed during the groundwater remediation program.

4.10 Residue Management Procedures

Excess soil generated during drilling was placed in 205 L steel drums, and temporarily stored on-site prior to off-site disposal in accordance with O. Reg. 347 (as amended).

Fluids from equipment cleaning and purged groundwater generated during well development and sampling was placed in 205 L plastic drums, and temporarily stored on-site prior to off-site disposal in accordance with O. Reg. 347 (as amended).

Claybar (contracted to SLE) retained Hotz Environmental Services (Hotz) of Hamilton, Ontario to remove soil cuttings and purge water from the site and dispose of this waste material at the Hotz facility in Hamilton, Ontario, in accordance with O.Reg. 347 (as amended).

4.11 Elevation Survey

Newly installed nine (9) monitoring wells were surveyed by SLE personnel on September 28, 2009 and August 19, 2010 to establish the ground surface, well casing and riser elevations. The survey was conducted relative to an assumed datum on a sanitary sewer manhole cover in the southeast corner of the site and assigned elevation to 100.00 m above sea level (asl).

4.12 Quality Assurance and Quality Control

Field investigations were carried out in accordance with O. Reg. 153/04, as amended, SOPs described in the SNC Field Work Guidance Manual and the sampling and analysis plan (Appendix B).

A quality assurance and quality control (QA/QC) program was implemented to minimize and quantify impacts introduced during sample collection, handling, shipping and analysis. As part of the QA/QC program, sampling protocols included minimizing sample handling; submitting field QA/QC samples; using dedicated non-contaminating sampling equipment; using sample specific identification and labelling procedures; and using chain of custody records.

4.12.1 Sample Container Preservation

Soil samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers. Soil samples for BTEX, MTBE and PHC F1 to F4 were collected directly in 60 mL and/or 120 mL wide mouthed clear glass jars (with zero headspace) with Teflon lined lids (O. Reg. 153/04, 2004). Soil samples for analysis were placed in coolers with ice and shipped to Maxxam by courier. No soil samples for grain size analysis were collected during this work program.

Groundwater samples submitted for laboratory analysis were collected in the field following protocols designed to minimize the loss of volatile constituents and using laboratory supplied sampling containers. Groundwater samples for laboratory analysis of BTEX, PHC F1 and MTBE were collected (with zero headspace) directly in 40 mL clear glass vials equipped with Teflon lined septum caps and containing hydrochloric acid (HCl) preservative/sodium bisulphate (NaHSO₄) preservative. Groundwater samples for analysis of PHC F2 to F4 were collected in

two (2) 500 mL amber glass bottles containing HCl/NaHSO₄ preservative. Samples for analysis were placed in coolers with ice, and delivered to the laboratory by courier.

4.12.2 Sample Labelling and Handing

A consistent approach to identifying samples was applied to ensure proper identification of each sample, validity of analytical results and continuity between multiple series of site investigations. The approach for soil sample labelling was to use a three component sample name:

1. sample prefix (i.e. BH,MW);
2. location number (i.e. BH-101); and,
3. sequential sample number (i.e. BH-101-2).

For groundwater sample labelling, a two component sample number was used (i.e. MW-101). All water samples collected from the same location, over a period of time, typically have the same sample prefix and location number, the sampling date is used to differentiate between samples.

During the field work, a permanent waterproof marker was used to label the sample containers. A marker, which is free of toluene (i.e. Staedtler Lumocolor permanent marker) was used on the sample containers. Upon sample retrieval, samples for analysis were collected directly into laboratory containers (with laboratory provided preservatives) and placed in coolers with ice. The requested chemical analyses for the samples were documented in the chain of custody that was placed in the cooler. Prior to shipment, signed and dated custody seals were affixed to the coolers. The coolers were then delivered to the laboratory by courier.

4.12.3 Sample Equipment Cleaning Procedure

The non-dedicated field soil sampling equipment (e.g. hand tools) was brushed to remove loose soil and cleaned with Liquinox and distilled water between sample collection to minimize the potential for cross-contamination between samples. Dedicated disposable vinyl gloves were worn for each sample.

Prior to use in each monitoring well, the interface probe was washed using Liquinox and rinsed with distilled water to minimize the potential for cross-contamination.

4.12.4 Field and Laboratory QA/QC Samples

As part of the soil sampling conducted during the drilling program for BH501 to BH504, one field duplicate sample of BH-504-4 (identified as BH-504-44) was submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE, in addition to the nine (9) soil samples submitted for laboratory analysis of the same parameters.

During the nine (9) sampling events conducted between August 25, 2010 and June 26, 2012, one (1) field duplicate, as well as a field blank and a trip blank were recovered at each event, and submitted for laboratory analysis. The field blank samples were prepared using de-ionized water supplied by Maxxam, while the trip blank samples were provided by Maxxam. The field duplicate samples and the field blank samples were submitted for analysis of BTEX, PHC F1 to F4 and MTBE. The trip blank samples were submitted for BTEX analysis only, with the exception of the trip blank sample submitted for December 7, 2011, which was also analyzed for MTBE.

In addition to the field duplicate, field blank and trip blank samples submitted for laboratory analyses, Maxxam's QA/QC measures also included analysis of laboratory blank samples and matrix spike samples.

4.12.5 Deviations from Sampling and Analysis Plan

Deviations were previously discussed in Section 3.4.

5. REMEDIAL ACTIONS

5.1 Soil Excavation Activities

Soil remediation activities were previously completed at the Phase II Property, and as such, were not a part of these remedial activities.

5.2 Groundwater Remediation

To remediate the elevated concentrations of benzene and MTBE identified in MW-401 and MW-402, SLE proposed a Insitu Chemical Oxidation (ISCO) program around MW-401 and MW-402, which was reviewed, and approved by Shell.

Insitu chemical oxidation (ISCO) involves injecting an oxidant into an area of contaminated soil or groundwater to destroy Contaminants of Concern (COC). ISCO using base activated persulphate is considered effective in destroying petroleum related chemicals such as BTEX, PHCs and MTBE. It can be delivered to the subsurface in a variety of ways including via horizontal and vertical wells as well as through injection pits and points and direct placement. At this site, temporary injection points were utilized to deliver oxidant solution (i.e. sodium persulphate), and activator (i.e., sodium hydroxide solution) to enhance the effectiveness of the oxidant, into the ground in areas where residual impacts to groundwater existed.

On September 10, 2010, Vertex Environmental Solutions Inc. (Vertex) submitted a Notice of Intended Locations to the Ontario Ministry of the Environment (MOE) Halton-Peel District Office to “activate” Vertex’s mobile Certificate of Approval (C of A) #1946-758KAJ for the Site. The MOE did not object to the application of the proposed oxidant solution (sodium persulphate) and activator (sodium hydroxide solution) at the Site.

ISCO via direct injection of sodium persulphate solution into eight (8) temporary injection points was conducted on October 15, 2010. Injections were completed by Vertex in accordance with their mobile C of A and under SLE supervision. Photos of the Injection process are included in Appendix G.

Approximately 313 L of sodium persulphate and sodium hydroxide solution was injected under pressure through the rods and into the subsurface at each of five (5) temporary point locations (IP-01 to IP-05) around monitoring well MW-401 and at each of three (3) temporary point locations (IP-06 to IP-08) around monitoring well MW-402. The solution was prepared on-site using mixing equipment in the injection trailer. Hollow Geoprobe rods with an expendable tip were advanced to a depth of 2.7 m (bgs) by the Pionjar equipment. The expendable tip was released and rods were raised, leaving a hole through which solution was injected under pressure.

Summary of Sodium Persulphate Injection

Injection Point	Injection Depth (m bgs)	Volume (L)	Total Volume Injected (L)	Sodium Persulphate (kg)	Total Sodium Persulphate (kg)
IP-01	2.1 - 2.7	125		25.0	
IP-01	1.5 - 2.1	187.5	312.5	37.5	62.5
IP-02	2.1 - 2.7	125		25.0	
IP-02	1.5 - 2.1	187.5	312.5	37.5	62.5
IP-03	2.1 - 2.7	125		25.0	
IP-03	1.5 - 2.1	187.5	312.5	37.5	62.5
IP-04	2.1 - 2.7	125		12.5	
IP-04	1.5 - 2.1	187.5	312.5	18.8	31.3
IP-05	2.1 - 2.7	125		12.5	
IP-05	1.5 - 2.1	187.5	312.5	18.8	31.3
IP-06	2.1 - 2.7	125		12.5	
IP-06	1.5 - 2.1	187.5	312.5	18.8	31.3
IP-07	2.1 - 2.7	125		12.5	
IP-07	1.5 - 2.1	187.5	312.5	18.8	31.3
IP-08	2.1 - 2.7	125		12.5	
IP-08	1.5 - 2.1	187.5	312.5	25.0	37.5
Grand Total			2,500		350.2

5.3 Sediment Remediation

No sediment was present on-site and as such, no sediment remediation was undertaken.

5.4 Permits

The only permit required for remedial actions completed at the Phase II Property was the Ministry of the Environment (MOE) mobile Certificate of Approval (CofA; Air) No.1946-758KAJ used by Vertex for their chemical oxidation injections.

5.5 Contaminants Introduced During Groundwater Remediation

The selected groundwater remedial method involved the single injection (i.e., over one day) of a chemical oxidant (sodium persulphate) and activator (sodium hydroxide) into the shallow groundwater, which are both consumed during the degradation process. Post injection monitoring completed between October 15, 2010 (date of injection) and June 28, 2011, indicated a decrease in residual persulfate within the groundwater samples analyzed near the point of injection, with no measurable persulfate after June 28, 2011. In addition, the

groundwater pH levels returned to pre-injection levels within three to four months following the date of injection, a further indication chemical oxidant was consumed.

5.6 Steps Taken to Establish Background Concentration

Although the contaminants of concern (BTEX, PHC F1 to F4 and MTBE) biodegrade into other end products, the degradation products for the petroleum parameters (BTEX and PHC F1 to F4) typically include carbon dioxide, water, and sometimes methane or other simple hydrocarbons. As for the MTBE, its primary degradation product is TBA, for which there are no current provincial or federal standards.

As several groundwater sampling events had been completed prior to the remediation program, additional sampling to investigate background concentrations was not required.

5.7 Post-Remedial Groundwater Plan

Following completion of the groundwater remedial activities, the nine (9) on-site monitoring wells were monitored and sampled for seven (7) quarterly periods from December 9, 2010 to June 26, 2012, as described in Section 4.8, to assess post-remedial groundwater conditions at the site. Rationale for groundwater sampling parameters is provided in the sampling and analysis plan (Appendix B). Post remedial groundwater samples were not collected from points used to deliver oxidant.

6. FREE FLOWING PRODUCT

Evidence of free flowing product was not encountered during the drilling, groundwater monitoring and sampling, or during the post-remedial groundwater assessment.

7. CONFIRMATION SAMPLING AND ANALYSIS

In order to demonstrate that the soil and groundwater (media investigated; Section 3.3) concentrations met the applicable MOE Table 2 standards, soil samples were analyzed from four (4) pre-remedial boreholes (BH-501 to BH-504) and groundwater sampling of the nine (9) on-site monitoring wells was conducted. Detailed methodologies for each of these sampling techniques are provided in Sections 4.2, 4.3 and 4.7, respectively. Rationale for sampling locations (vertically and laterally) and for contaminants analyzed is provided in the sampling and analysis plan (Appendix B).

7.1 Pre-Remedial Drilling Soil and Groundwater Sampling

No visual or olfactory evidence of potential environmental impact was noted in any of the soil samples recovered from BH-501 to BH-504. Maximum OVM readings of 225 ppmv of the lower explosive limit of hexane (LEL) were measured on soil samples collected from BH-501, and the remaining soil samples ranged from less than 25 ppmv to 75 ppmv. Field observations of all four (4) boreholes and the results of field screening are summarized in the Borehole Logs (Appendix D).

A summary of analysed pre-remedial soil samples submitted from BH-501 and BH-504, compared to the MOE Table 2 standards are provided in Table 1. As shown in Table 1, measured concentrations of BTEX, PHC F1 to F4, and MTBE satisfied the MOE Table 2 standards in all of the analyzed soil samples collected from BH-501 to BH-504. The borehole soil sample results are summarized in Figure 4. Laboratory Certificates of Analysis for soil samples collected from the boreholes are provided in Appendix E.

Waste classification for offsite disposal of soil cuttings was based on the analytical results of a representative soil sample submitted for chemical analysis from June 09, 2010 drilling program for BH401 to BH405, completed at the site by SLE. Results indicated that that soil from the site may be classified as non-hazardous waste under O. Reg. 347 for the purpose of off-site disposal in the Province of Ontario. Laboratory Certificates of Analysis for the waste classification sample are provided in Appendix F.

7.2 Post-Remedial Groundwater Samples

Post-remedial groundwater monitoring and sampling activities were conducted, following completion of the ISCO program on October 15, 2010, as described in Section 4.7. Specifically, groundwater sampling events were conducted a minimum of ninety (90) days after the remedial program was completed, and groundwater sampling events were separated from each other by a minimum of ninety (90) days, as required by Regulation 153/04 (as amended).

7.2.1 Post Remedial Groundwater Monitoring Results

Pre-remedial and post-remedial groundwater monitoring results are summarized in Table 2. Between August 25, 2010 and June 26, 2012, the measured depth to water across the site has ranged from 0.55 m below grade surface (mbgs) in MW-405 to 2.03 mbgs in MW-402 and MW-403. The corresponding local groundwater elevations have ranged from 99.41 m above mean sea level (mamsl) in MW-405 to 98.18 mamsl in MW-403. Prior to the soil remedial excavation activities completed at the site by Wardrop (2008-2009), the water levels measured across the site ranged from 0.23 m to 3.85 m bgs (Wardrop, 2008b). The change in local groundwater levels is likely the result of groundwater mounding associated with the granular backfill material used to reinstate the remedial excavation.

Based on the water level elevations measured on December 7, 2011 (winter season) and June 26, 2012 (summer season), the interpreted horizontal groundwater flow directions in overburden are shown in Figures 5 and 6, respectively. As shown in these figures, the horizontal groundwater flow direction in overburden was generally to the south and east.

Peak well headspace organic vapour readings and product monitoring results are also summarized in Table 2. No liquid petroleum product, visible petroleum film or sheen was detected in the monitoring wells during the monitoring events completed between August 10, 2010 (pre-remedial monitoring event) to June 26, 2012 (final monitoring event).

7.2.2 Post Remedial Groundwater Analytical Results

Geochemical field measurements collected during each sampling event are presented in Table 3.

The analytical results for the eight (8) post-remedial sampling events were completed at the site between December 9, 2010 and June 26, 2012 and the MOE Table 2 standards are summarized in Table 4. Groundwater analytical results are summarized in Figure 7. Laboratory Certificates of Analysis for groundwater samples are provided in Appendix F.

A review of the analytical results presented in Table 4, for the first four (4) sampling events completed at the Phase II Property between December 10, 2010 and July 15, 2011, indicate that the concentrations of all parameters analysed satisfied the MOE Table 2 standards, with the exception of benzene in MW-401.

A review of the analytical results presented in Table 4, for the last four (4) quarterly sampling events completed at the Phase II Property on September 9, 2011 and December 7, 2011, March 22, 2011 and June 26, 2011, indicated concentrations of all parameters analysed satisfied the MOE Table 2 standards in all monitoring wells sampled.

7.3 Post-Remedial Cross-Sections

Post-remedial cross-section locations are shown in Figure 4. Selected soil and groundwater sampling locations, excavated areas and stratigraphy are summarized in the cross-sections shown in Figures 8 and 9. Cross-sections are provided both parallel to and perpendicular to the observed direction of shallow horizontal groundwater flow.

7.4 Quality Assurance and Quality Control

The results of laboratory QA/QC analyses are summarized in the soil and groundwater analytical Tables 1 and 4, and presented in the Laboratory Certificates of Analysis (Appendices E and G). The analyses included instrument and extraction surrogate recovery, method blanks, matrix duplicates, matrix spikes, and laboratory control samples.

A certificate of analysis has been received for each sample submitted for analysis and all certificates of analysis have been included in full in Appendices E to G. All certificates of analysis received from the contract analytical laboratory comply with sub-section 47(3) of the regulation. An independent data quality check was completed for each Laboratory Certificate of Analysis and is also included in Appendices E to G.

In summary, no field or laboratory QA/QC issues were identified that would materially affect the overall results of the assessment and groundwater remediation findings.

8. SOIL EXCAVATED AT OR BROUGHT TO THE PHASE II PROPERTY

There were no on-site excavation activities completed as part of this remedial program, nor was any soil imported to the Phase II Property as part of this remedial program.

9. CONCLUSIONS

SLE was requested by Shell to provide environmental consulting services assess and remediate groundwater impact identified at the former retail fuel facility located at 3005 Dundas Street West, Oakville, Ontario. The assessment and groundwater remediation program, which included Insitu Chemical Oxidation (ISCO) was completed between August 19, 2010 and June 26, 2012. The work program and subsequent results are summarized below:

- Site condition standards selected for use at the Phase II Property correspond to the full depth generic site condition standards for medium to fine textured soil and industrial/commercial/community land use in a potable ground water condition (i.e., Table 2: Full Depth Generic Site Condition Standards in a Potable Groundwater Condition; MOE, 2004);
- The Phase II Property was operated as a retail fuel outlet and automotive service station from the mid 1960s up to its decommissioning in 2007. Petroleum hydrocarbon (PHC) and MTBE impacts to soil identified on the site were addressed through remedial excavation programs between 2008 and 2009. Residual impacts to groundwater (concentrations of benzene and MTBE above the MOE 2004 Table 2 standards) were identified in two monitoring wells (MW-401 and MW-402) located in the southern portion of the site following completion of the remedial excavation programs;
- To evaluate soil and groundwater conditions near MW401 and MW-402, four (4) boreholes (BH-501 to BH-504), completed as monitoring wells (MW-501 to MW-504), were drilled in the vicinity and down-gradient of MW-401 and MW-402;
- The analytical results of soil samples collected from all four (4) boreholes and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE, indicated measured concentrations of the analyzed parameters below the MOE Table 2 standards;
- Pre-injection groundwater monitoring of the nine (9) on-site monitoring wells (MW-401 to MW-405 and MW-501 to MW-504), including submission of a groundwater sample from each well for laboratory analysis of BTEX, PHC F1 to F4 and MTBE was completed to provide a baseline for comparison to post-injection results;
- The ISCO included injections of sodium persulphate via eight (8) injection points located in the vicinity of monitoring wells MW-401 and MW-402 to remediate groundwater impacts of benzene and MTBE;
- Quartering groundwater sampling events (post groundwater remediation) were completed at the site from December 9, 2010 to June 26, 2012 for the nine (9) newly installed monitoring wells, until the analytical results from four(4) consecutive events met the applicable standards under O.Reg. 153/04. Groundwater samples were recovered from each well and submitted for laboratory analysis of BTEX, PHC F1 to F4 and MTBE; and,
- Measured concentrations of the contaminants of concern (benzene and MTBE) satisfying the MOE 2004 Table 2 standards were identified during the latest four (4)

consecutive quarterly sampling events conducted between September 9, 2011 and June 26, 2012.

Based on the analytical results for the latest four (4) consecutive quarterly groundwater sampling events, which satisfied the MOE 2004 Table 2 standards, a Record of Site Condition can be filed for the site.

10. LIMITATION OF LIABILITY, SCOPE OF REPORT AND THIRD PARTY RELIANCE

The statements made in this report are based solely on the information obtained to date as part of the above referenced study. SNC-Lavalin Environment, Division of SNC-Lavalin Inc. (SLE) has used its professional judgement in assessing this information and formulating its opinion and recommendations. New information may result in a change in this opinion. The mandate at SLE is to perform the tasks prescribed by the Client with the due diligence of the profession. No other warranty or representation, expressed or implied, as to the accuracy of the information or recommendations is included or intended in this report. The results of this study should in no way be construed as a warranty that the subject property is free from any and all contamination.

SLE disclaims any liability or responsibility to any person or party, other than the party to whom this report is addressed, for any loss, damage, expense, fine, or penalty which may arise or result from the use of any information or recommendations contained in this report. Any use which a third party makes of this report, or any reliance on or decisions made based on it, are the sole responsibility of the third party.

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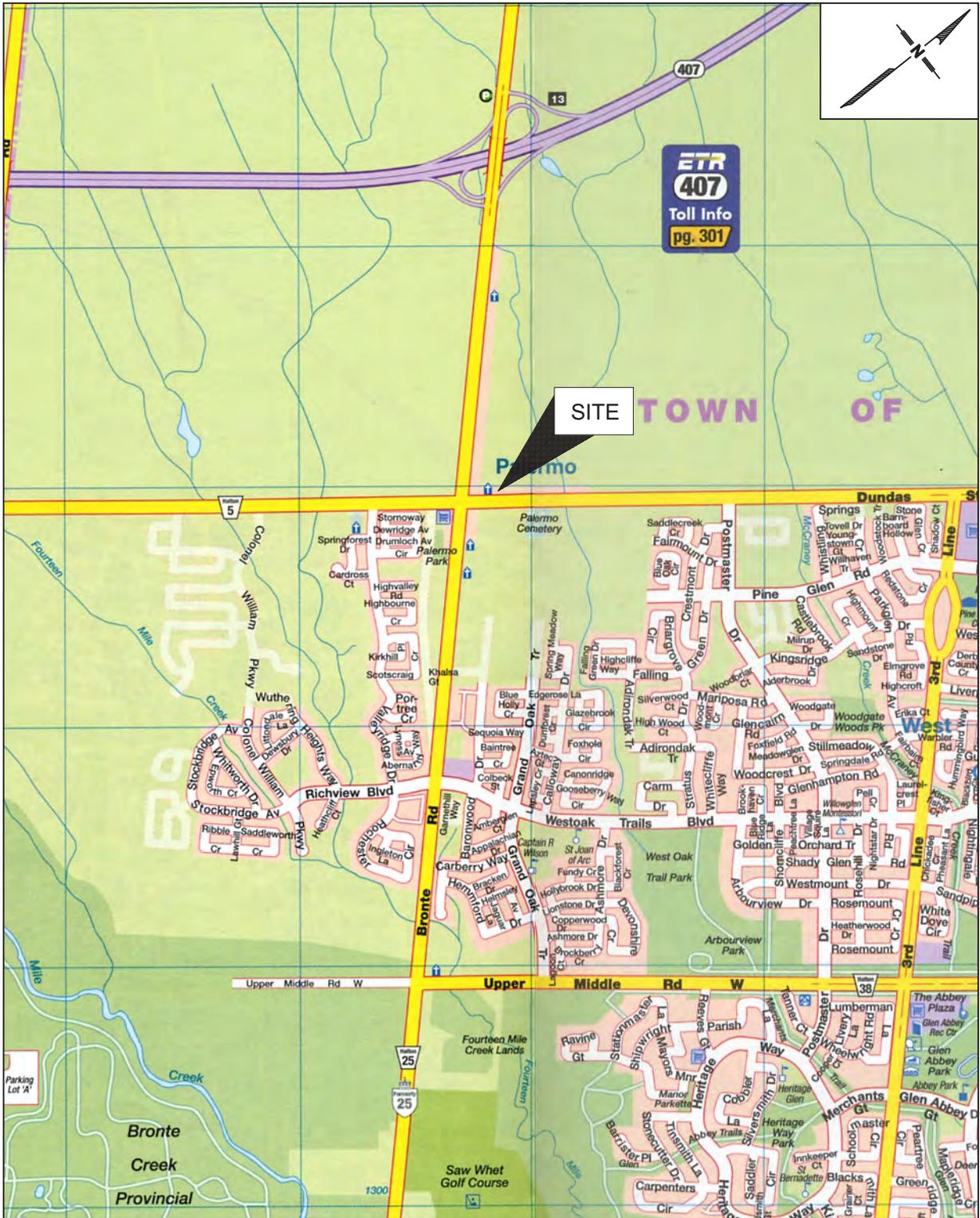
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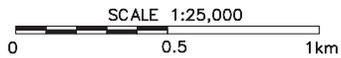
Wardrop Engineering Inc (Wardrop), 2008b. Phase II Environmental Site Assessment, Shell Retail No. C05875, Oakville, Ontario. Report to Shell Canada Products dated September 25, 2008.

Wardrop Engineering Inc (Wardrop), 2008c. Off-Property Environmental Assessment, 3015 Dundas Street – Oakville, Ontario Adjacent West of Former Shell Canada Products Retail Fuel Outlet (05875 - Final. Report to Shell Canada Products dated September 23, 2008.

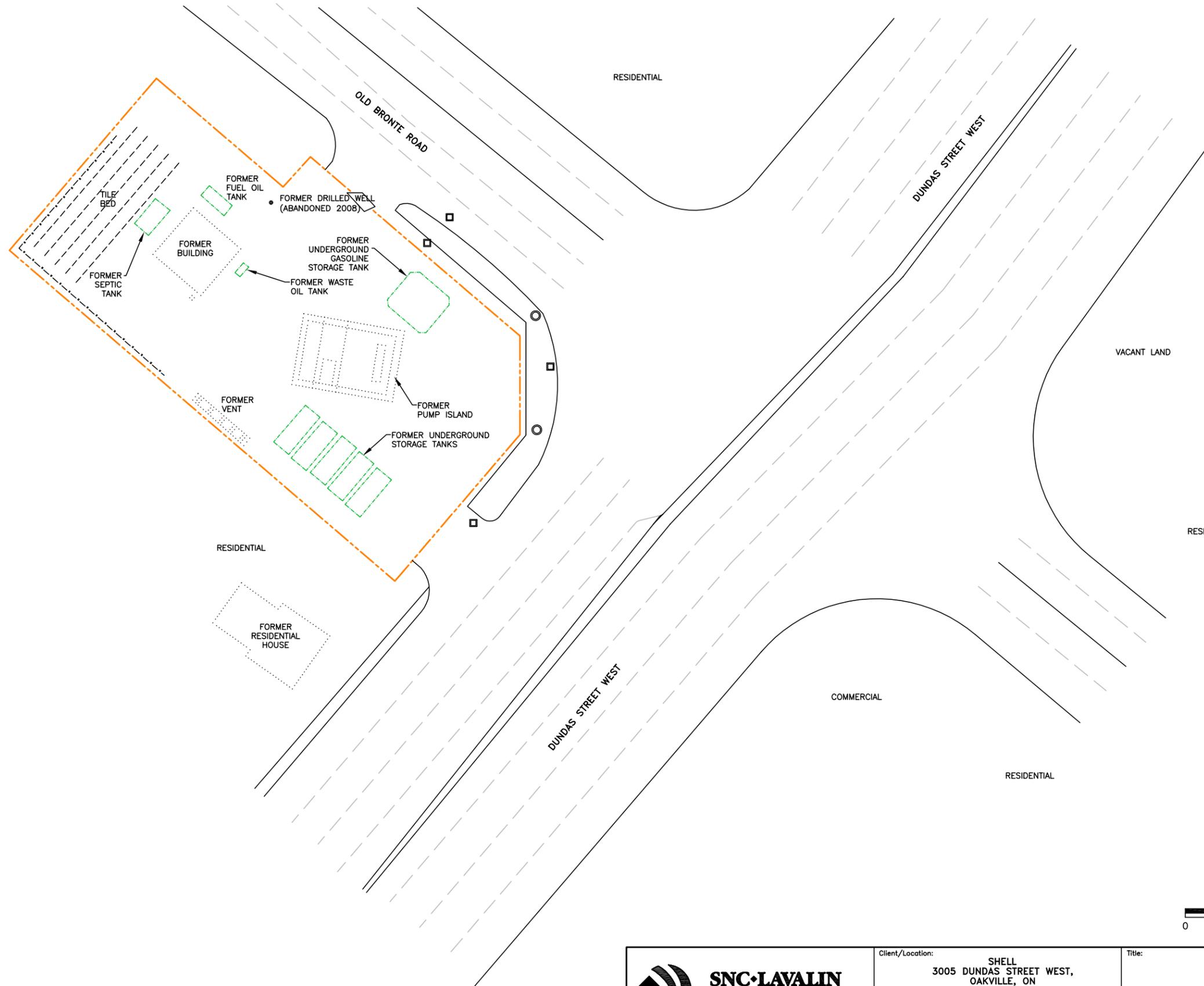
FIGURES



SOURCE: SCHWERDT GRAPHIC ARTS LTD., (MapArt), 2007 EDITION

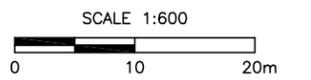


 SNC-LAVALIN Environment	Client/Location:		SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title:		SITE LOCATION PLAN	
	Project No:	S09125	Filename:	20F01_S09125	Date:	NOVEMBER 2012	Dwg No:	FIGURE 1
	Drawn:	DM	Verified:		Project Manager:			



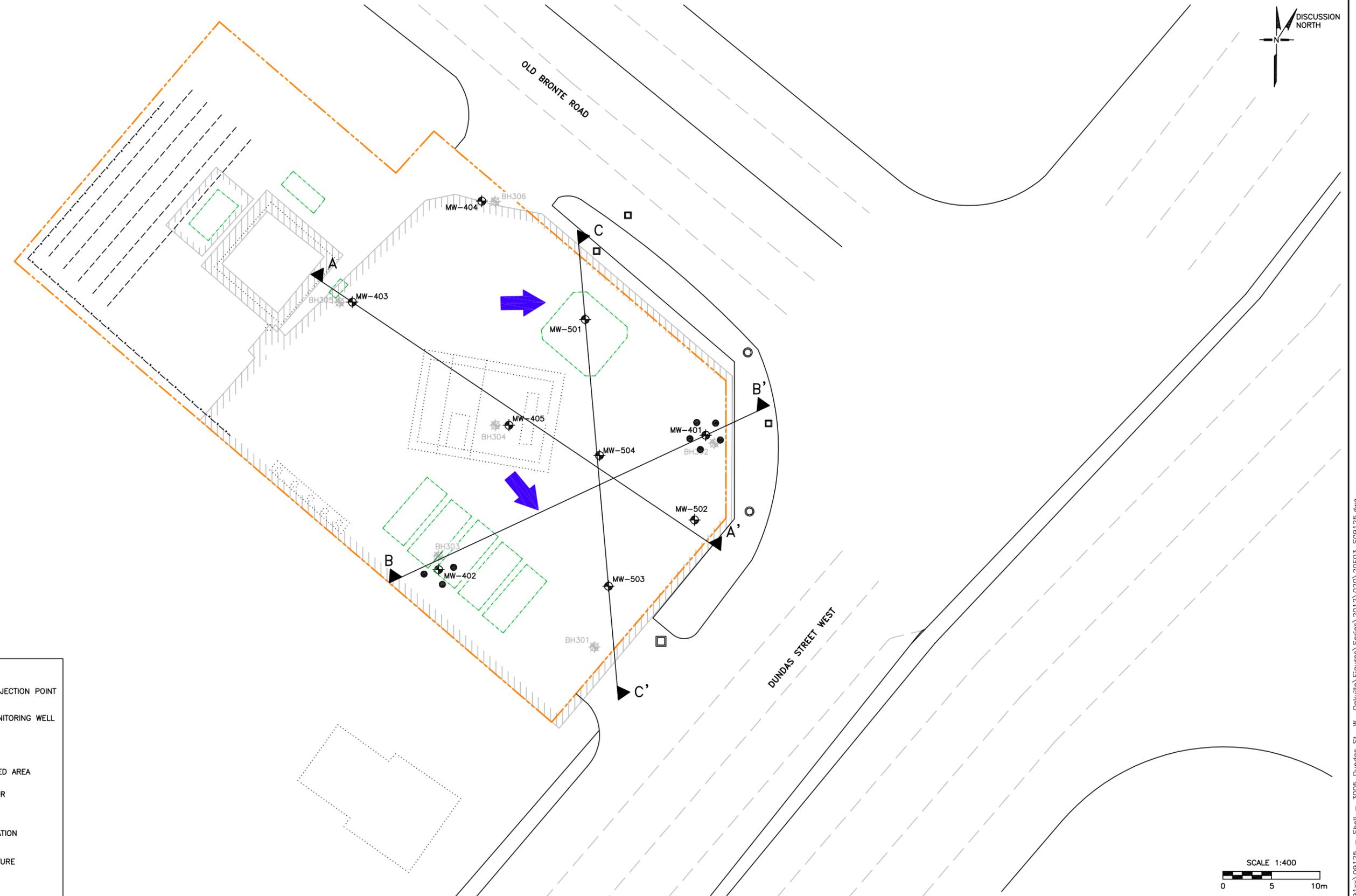
LEGEND	
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	EXISTING BUILDING
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES



	Client/Location: SHELL 3005 DUNDAS STREET WEST, OAKVILLE, ON		Title: HISTORICAL SITE LAYOUT	
	Project No: S09125	Filename: 20F02_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 2
	Drawn: AG	Verified:	Project Manager:	

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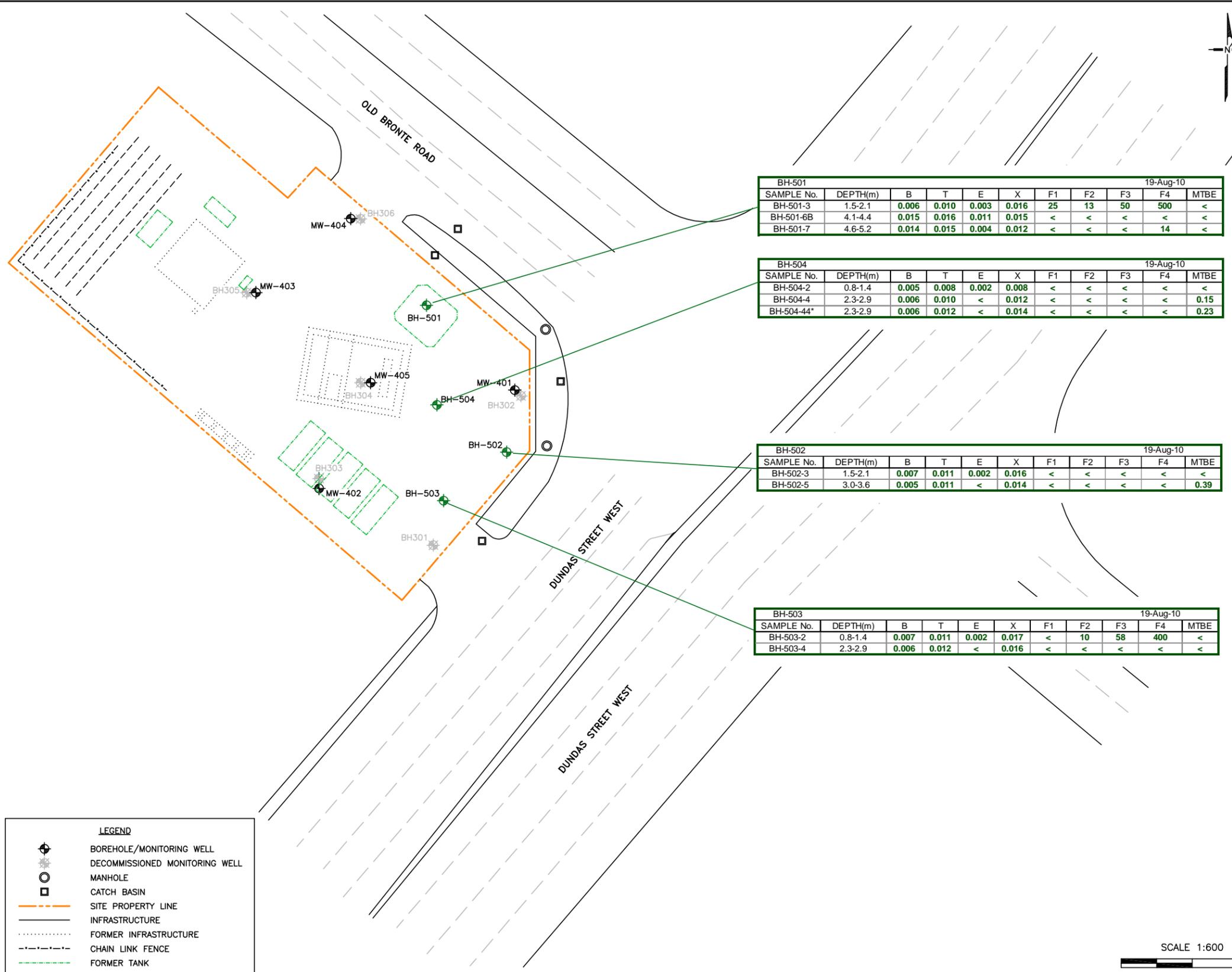
LEGEND	
	CHEMICAL OXIDANT INJECTION POINT
	MONITORING WELL
	DECOMMISSIONED MONITORING WELL
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	PREVIOUSLY EXCAVATED AREA
	TYPICAL GROUNDWATER FLOW DIRECTION
	CROSS SECTION LOCATION
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS



	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: SAMPLE LOCATION PLAN	
	Project No: S09125	Filename: 20F03_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 3
	Drawn: DM	Verified:	Project Manager:	

FILENAME: P:\2009\09125\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\020\20F03_S09125.dwg



BH-501		19-Aug-10									
SAMPLE No.	DEPTH(m)	B	T	E	X	F1	F2	F3	F4	MTBE	
BH-501-3	1.5-2.1	0.006	0.010	0.003	0.016	25	13	50	500	<	
BH-501-6B	4.1-4.4	0.015	0.016	0.011	0.015	<	<	<	<	<	
BH-501-7	4.6-5.2	0.014	0.015	0.004	0.012	<	<	<	14	<	

BH-504		19-Aug-10									
SAMPLE No.	DEPTH(m)	B	T	E	X	F1	F2	F3	F4	MTBE	
BH-504-2	0.8-1.4	0.005	0.008	0.002	0.008	<	<	<	<	<	
BH-504-4	2.3-2.9	0.006	0.010	<	0.012	<	<	<	<	0.15	
BH-504-44*	2.3-2.9	0.006	0.012	<	0.014	<	<	<	<	0.23	

BH-502		19-Aug-10									
SAMPLE No.	DEPTH(m)	B	T	E	X	F1	F2	F3	F4	MTBE	
BH-502-3	1.5-2.1	0.007	0.011	0.002	0.016	<	<	<	<	<	
BH-502-5	3.0-3.6	0.005	0.011	<	0.014	<	<	<	<	0.39	

BH-503		19-Aug-10									
SAMPLE No.	DEPTH(m)	B	T	E	X	F1	F2	F3	F4	MTBE	
BH-503-2	0.8-1.4	0.007	0.011	0.002	0.017	<	10	58	400	<	
BH-503-4	2.3-2.9	0.006	0.012	<	0.016	<	<	<	<	<	

PARAMETERS	ABBREVIATION	RDL	TABLE 2 MEDIUM AND FINE IND./COM./COMM.
BENZENE	B	0.02	0.24
TOLUENE	T	0.02	2.1
ETHYLBENZENE	E	0.02	0.28
XYLENES	X	0.04	25
PHC F1	F1	10	180
PHC F2	F2	10	250
PHC F3	F3	10	2500
PHC F4	F4	10	6600
METHYL T-BUTYL ETHER	MTBE	0.002	5.7

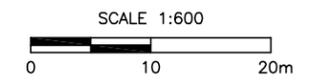
1. ALL CONCENTRATIONS IN $\mu\text{g/g}$
2. TABLE 2: FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A POTABLE GROUNDWATER CONDITION FOR INDUSTRIAL/COMMERCIAL/COMMUNITY PROPERTY USE - MEDIUM AND FINE TEXTURED SOILS (MOE, 2004)
3. *GREEN* : GREEN COLOURED CONCENTRATION SATISFIES THE MOE STANDARD
4. *RED* : RED COLOURED & UNDERLINED CONCENTRATION EXCEEDS THE MOE STANDARD
5. 'RDL' : REPORTABLE DETECTION LIMIT
6. '<' : LESS THAN RDL (UNLESS NOTED)
7. '*': FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE

LEGEND

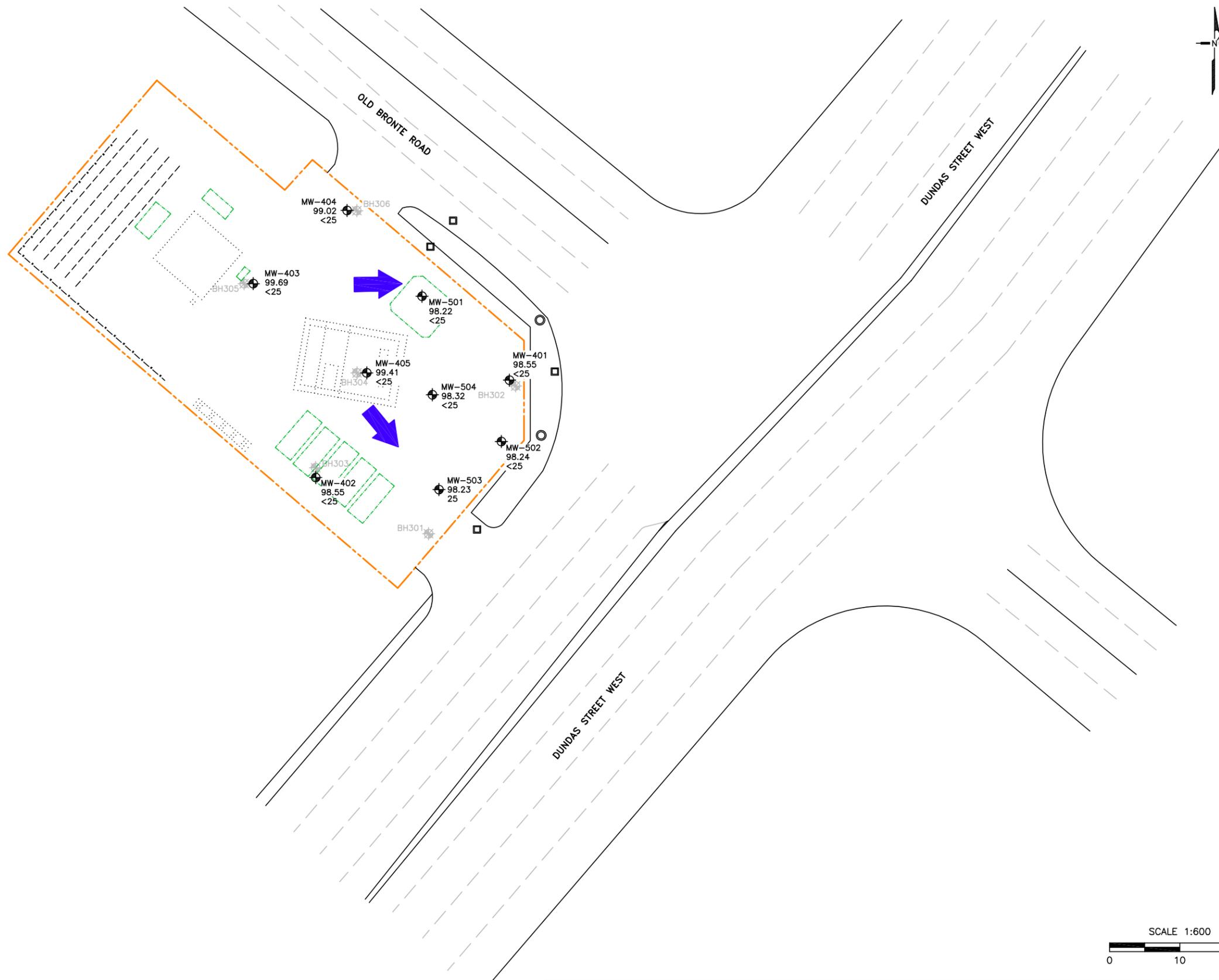
- BOREHOLE/MONITORING WELL
- DECOMMISSIONED MONITORING WELL
- MANHOLE
- CATCH BASIN
- SITE PROPERTY LINE
- INFRASTRUCTURE
- FORMER INFRASTRUCTURE
- CHAIN LINK FENCE
- FORMER TANK
- BOREHOLE/MONITORING WELL - ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS IN ALL ANALYSED SAMPLES
- BOREHOLE/MONITORING WELL - AT LEAST ONE ANALYSED PARAMETER EXCEEDS THE SELECTED STANDARD IN AT LEAST ONE ANALYSED SAMPLE

NOTE(S):

1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
3. "m" : METRES



Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: SOIL ANALYTICAL RESULTS	
Project No: S09125	Filename: 20F04_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 4
Drawn: DM	Verified:	Project Manager:	

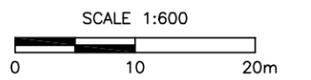


LEGEND	
	MONITORING WELL
	DECOMMISSIONED MONITORING WELL
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK
	INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW DIRECTION

MW-504	IDENTIFICATION
98.23	WATER LEVEL ELEVATION (m)
<25	OVm READING

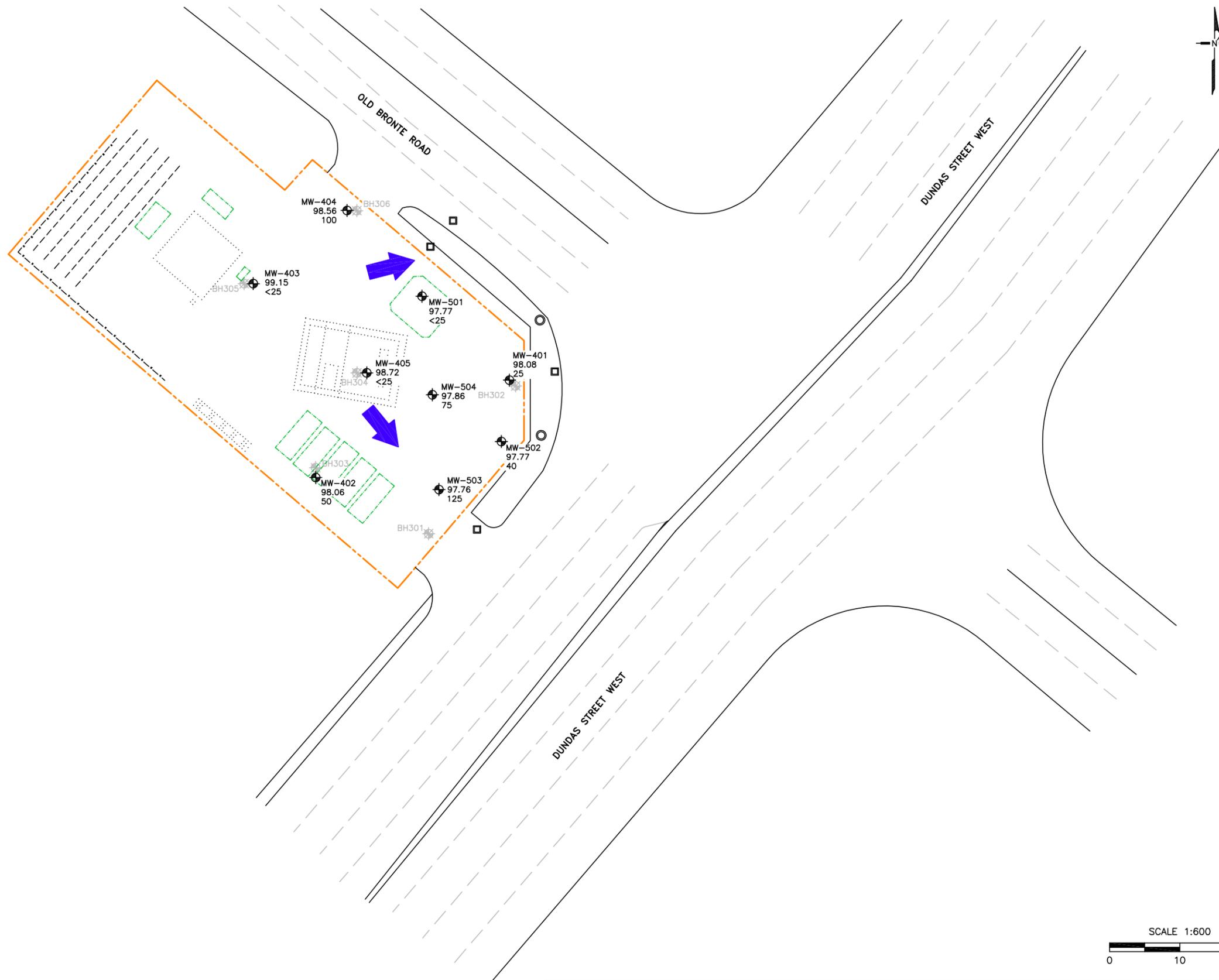
NOTE(S):

- SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
- INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
- "m" : METRES
- SITE MONITORED JUNE 2012



	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW AND HEADSPACE VAPOUR READING (DECEMBER 2011)	
	Project No: S09125	Filename: 20F05_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 5
	Drawn: DM	Verified:	Project Manager:	

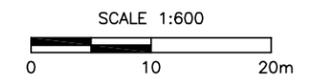
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LEGEND	
	MONITORING WELL
	DECOMMISSIONED MONITORING WELL
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK
	INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW DIRECTION

MW-504	IDENTIFICATION
98.23	WATER LEVEL ELEVATION (m)
<25	OVN READING

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES
 4. SITE MONITORED JUNE 2012



	Client/Location:		SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title:		INTERPRETED SHALLOW HORIZONTAL GROUNDWATER FLOW AND HEADSPACE VAPOUR READING (JUNE 2012)	
	Project No:	S09125	Filename:	20F06_S09125	Date:	NOVEMBER 2012	Dwg No:	FIGURE 6
	Drawn:	DM	Verified:		Project Manager:			

FILENAME: P:\2009\091xx\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\020\20F06_S09125.dwg



MW-404 SCREEN INTERVAL: 1.2 to 3.7m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
06-Oct-09	<0.3	<0.5	<0.3	<0.3	<	<	45
04-Dec-09	<0.2	<	<0.2	<0.4	<	<	40
08-Jun-10	<0.2	<	<0.2	<0.4	<	<	37
25-Aug-10	<	<	<	<	<	<	44
09-Dec-10	<0.5	<1	<0.5	<0.5	<	<	53
25-Feb-11	<0.2	<	<0.2	<0.4	<	<	36
29-Jun-11	<0.2	<0.4	<0.2	<0.4	<	<	43
09-Sep-11	<0.2	<0.4	<0.2	<0.2	<	<	11
07-Dec-11	<	<	<	<	<	<	21
22-Mar-12	<0.2	<0.4	<0.2	<0.2	<	<	24
26-Jun-12	<	<	<	<	<	<	26

BH306 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	<	<	<	<	<	<	19

MW-501 SCREEN INTERVAL: 1.5 to 4.6m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
25-Aug-10	<	<	<	<	<	<	13
09-Dec-10	<	<	<	<	<	<	9.4
25-Feb-11	<	<	<	<	<	<	1.1
29-Jun-11	<	<	<	<	<	<	1.2
09-Sep-11	<	<	<	<	<	<	0.7
07-Dec-11	<	<	<	<	<	<	3.3
22-Mar-12	<	<	<	<	<	<	4.7
26-Jun-12	0.1	<	<	0.1	<	<	2.5

BH305 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	1.9	2.6	1.7	20	130	<	1.7

MW-405 SCREEN INTERVAL: 1.2 to 3.7m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
08-Oct-09	<1	<2	<1	<1	<	<	170
04-Dec-09	<0.2	<	<0.2	<0.4	<	<	44
09-Jun-10	<0.2	<	<0.2	<0.4	<	<	51
25-Aug-10	0.4	<	<	<	<	<	53
09-Dec-10	<	<	<	<	<	<	13
25-Feb-11	<0.2	<	<0.2	<0.4	<	<	4.9
29-Jun-11	<	<	<	<	<	<	7.1
09-Sep-11	<	<	<	<	<	<	4.4
07-Dec-11	<	<	<	<	<	<	1.8
22-Mar-12	<	<	<	<	<	<	1.1
26-Jun-12	<	<	<	<	<	<	1.2

MW-403 SCREEN INTERVAL: 1.2 to 3.7m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
08-Oct-09	<	<	<	<	<	<	1.7
04-Dec-09	<0.2	<	<0.2	<0.4	<	<	38
08-Jun-10	<0.2	<	<0.2	<0.4	<	<	<
25-Aug-10	<	<	<	<	<	<	11
09-Dec-10	<	<	<	<	<	<	4.6
25-Feb-11	<0.2	<	<0.2	<0.4	<	<	0.8
29-Jun-11	<	<	<	<	<	<	0.2
09-Sep-11	<	<	<	<	<	<	6.5
07-Dec-11	<	<	<	<	<	<	0.3
22-Mar-12	<	<	<	<	<	<	0.3
26-Jun-12	<	<	<	<	<	<	0.2

MW-401 SCREEN INTERVAL: 1.2 to 3.7m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
30-Sep-09	58	25	2	210	7800	<	14
04-Dec-09	6	1.7	1.3	20	890	<	4.8
09-Jun-10	3	0.2	<0.2	1.6	310	<	1.7
09-Jun-10*	5.4	0.3	0.6	2.2	360	<	2.5
25-Aug-10	9.9	0.5	1.9	0.7	250	<	7.2
25-Aug-10*	9.0	0.5	1.6	0.6	240	<	6.8
10-Dec-10	2.3	<1	0.6	1.4	150	<	<4
10-Dec-10*	1.9	<0.5	0.6	1.7	110	<	<2
25-Feb-11	<0.2	<	<0.2	0.9	980	<	<0.4
25-Feb-11*	0.5	<	<0.2	1.7	790	<	<0.4
29-Jun-11	9.0	<	0.2	0.4	<	<	4.4
29-Jun-11*	9.9	<	0.2	0.9	<	<	4.8
15-Jul-11	35.0	<1	0.7	1.8	<	<	11
15-Jul-11*	32.0	<1	<0.5	0.6	120	<	10
09-Sep-11	0.4	0.2	0.1	0.8	35	<	<2
09-Sep-11*	0.4	<	0.1	0.8	<	<	<2
07-Dec-11	<	<	<	<	<	<	<
07-Dec-11*	<	<	<	<	<	<	<
22-Mar-12	0.4	<0.2	0.2	0.4	<	<	<0.4
22-Mar-12*	0.4	<	0.2	0.3	<	<	0.4
26-Jun-12	1.1	<	0.2	<	<	<	6.3
26-Jun-12*	1.2	<	0.2	0.1	<	<	6.3

BH304 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	3	<4	9	52	420	<	36

BH302 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	11	<2	4	21	310	<	<2
23-Jul-09	<0.2	<	<0.2	<0.4	<	<	11

MW-503 SCREEN INTERVAL: 1.1 to 3.8m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
25-Aug-10	<1	<2	<1	<1	<	<	160
09-Dec-10	<	<	<	<	<	<	39
25-Feb-11	<	<	<0.1	<0.1	<	<	19
29-Jun-11	<0.5	<1	<0.5	<0.5	<	<	89
09-Sep-11	<0.2	<0.2	<0.2	<0.4	<	<	620
07-Dec-11	<1	<2	<1	<1	<	<	160
22-Mar-12	<0.2	<0.2	<0.2	<0.4	<	<	390
22-Mar-12 (BTEX run)**	<0.2	<0.2	<0.2	<0.4	<	<	-
26-Jun-12	<0.2	<0.4	<0.2	<0.2	<	<	32

MW-504 SCREEN INTERVAL: 1.1 to 3.8m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
25-Aug-10	<0.3	<0.5	<0.3	<0.3	<	<	60
09-Dec-10	<0.5	<1	<0.5	<0.5	<	<	69
25-Feb-11	<0.5	<1	<0.5	<0.5	<	<	65
29-Jun-11	<	<	<0.1	<0.1	<	<	34
09-Sep-11	<0.2	<0.4	<0.2	<0.2	<	<	47
07-Dec-11	<	<	<	<	<	<	6.5
22-Mar-12	<0.2	<0.4	<0.2	<0.2	<	<	33
26-Jun-12	<	<	<	0.1	<	<	20

BH303 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	<	<	<	<	<	<	0.7

MW-502 SCREEN INTERVAL: 1.1 to 3.8m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
25-Aug-10	0.2	<	<	0.1	<	<	17
09-Dec-10	<	<	<	<	<	<	9.5
25-Feb-11	<	<	<	<	<	<	36
29-Jun-11	<	<	<	<	<	<	4.3
09-Sep-11	<	<	<	<	<	<	17
07-Dec-11	<	<	<	<	<	<	2.9
22-Mar-12	0.2	0.3	<	0.2	<	<	9.1
26-Jun-12	<	<	<	<	<	<	8.7

MW-402 SCREEN INTERVAL: 1.2 to 3.6m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
30-Sep-09	<1	<2	<1	<1	<	<	160
04-Dec-09	0.3	<	<0.2	<0.4	<	<	730
04-Dec-09*	<0.2	<	<0.2	<0.4	<	<	750
09-Jun-10	<0.2	<	<0.2	<0.4	<	<	260
25-Aug-10	<0.2	<	<	<	<	<	26
09-Dec-10	<2	<4	<2	<2	<	<	390
25-Feb-11	<0.2	<	<0.2	<0.4	<	<	9.3
29-Jun-11	<1	<2	<1	<1	<	<	330
09-Sep-11	<0.5	<1	<0.5	<0.5	<	<	55
07-Dec-11	<	<	<	<	<	<	95
22-Mar-12	<0.2	<0.2	<0.2	<0.4	<	<	450
22-Mar-12 (BTEX run)**	<0.2	<	<0.2	<0.4	-	-	-
26-Jun-12	<0.2	<0.2	<0.2	<0.4	<	<	510
26-Jun-12 (BTEX run)**	<0.2	<	<0.2	<0.4	-	-	-

BH301 SCREEN INTERVAL: 0.9 to 2.4m BELOW GRADE							
DATE	B	T	E	X	F1+F2	F3+F4	MTBE
24-Mar-09	0.7	0.3	0.2	1.9	<	<	1.4

PARAMETERS	ABBREVIATION	RDL	STANDARDS
BENZENE	B	0.1	TABLE 2 (2004) MED. & FINE STANDARD
TOLUENE	T	0.2	24
ETHYLBENZENE	E	0.1	2.4
TOTAL XYLENES	X	0.1	300
PHC F1 + F2	F1+F2	100	1000
PHC F3 + F4	F3+F4	100	1000
METHYL T-BUTYL ETHER	MTBE	0.2	700

STANDARDS/CRITERIA:

- TABLE 2 (2004): FULL DEPTH GENERIC SITE CONDITION STANDARDS IN A POTABLE GROUNDWATER CONDITION FOR ALL TYPES OF PROPERTY USE, MEDIUM AND FINE TEXTURED SOILS (MOE, 2004)
- 'GREEN': GREEN COLOURED CONCENTRATION SATISFIES THE MOE STANDARD APPLICABLE AT THE TIME OF SAMPLING
- 'RED': RED COLOURED & UNDERLINED CONCENTRATION EXCEEDS THE MOE STANDARD APPLICABLE AT THE TIME OF SAMPLING

GENERAL NOTES:

- ALL CONCENTRATIONS IN MICROGRAMS/LITRE (µg/L)
- 'NS': NO STANDARD
- '<': LESS THAN REPORTABLE DETECTION LIMIT APPLICABLE AT THE TIME OF REPORTING
- '<###': LESS THAN ADJUSTED REPORTABLE DETECTION LIMIT
- '###': ADJUSTED RDL EXCEEDS APPLICABLE STANDARDS
- '###/###': NOT ANALYSED
- '*': FIELD DUPLICATE OF PREVIOUSLY LISTED SAMPLE
- '**': BTEX RUN ANALYZED AS PART OF QA/QC PROGRAM
- 'PHC': PETROLEUM HYDROCARBON
- 'm': METRES

LEGEND

- MONITORING WELL - NOT ANALYSED
- DECOMMISSIONED MONITORING WELL
- MANHOLE
- CATCH BASIN
- SITE PROPERTY LINE
- INFRASTRUCTURE
- FORMER INFRASTRUCTURE
- CHAIN LINK FENCE
- FORMER TANK
- ANALYSED GROUNDWATER SAMPLE LOCATION - ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS IN THE MOST RECENT SAMPLING EVENTS

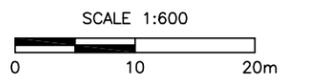
(GROUNDWATER SAMPLING EVENTS - SEPTEMBER 2011 TO JUNE 2012)

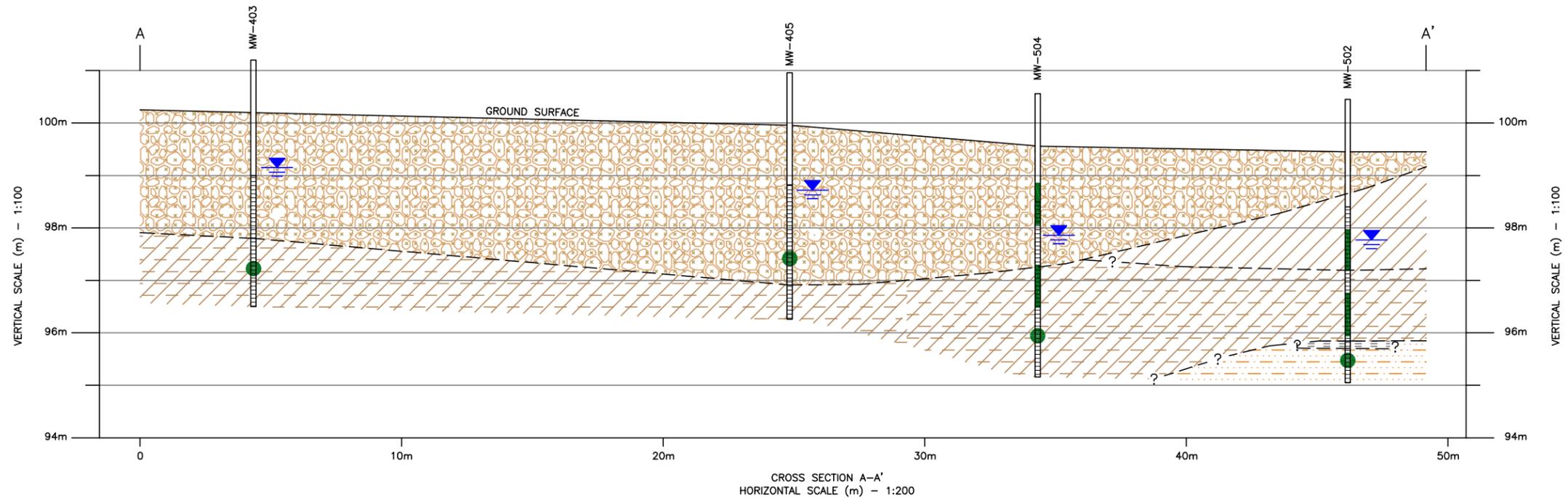
NOTE(S):

- SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS



Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: GROUNDWATER ANALYTICAL RESULTS	
Project No: S09125	Filename: 20F07_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 7
Drawn: DM	Verified:	Project Manager:	





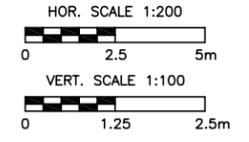
LEGEND

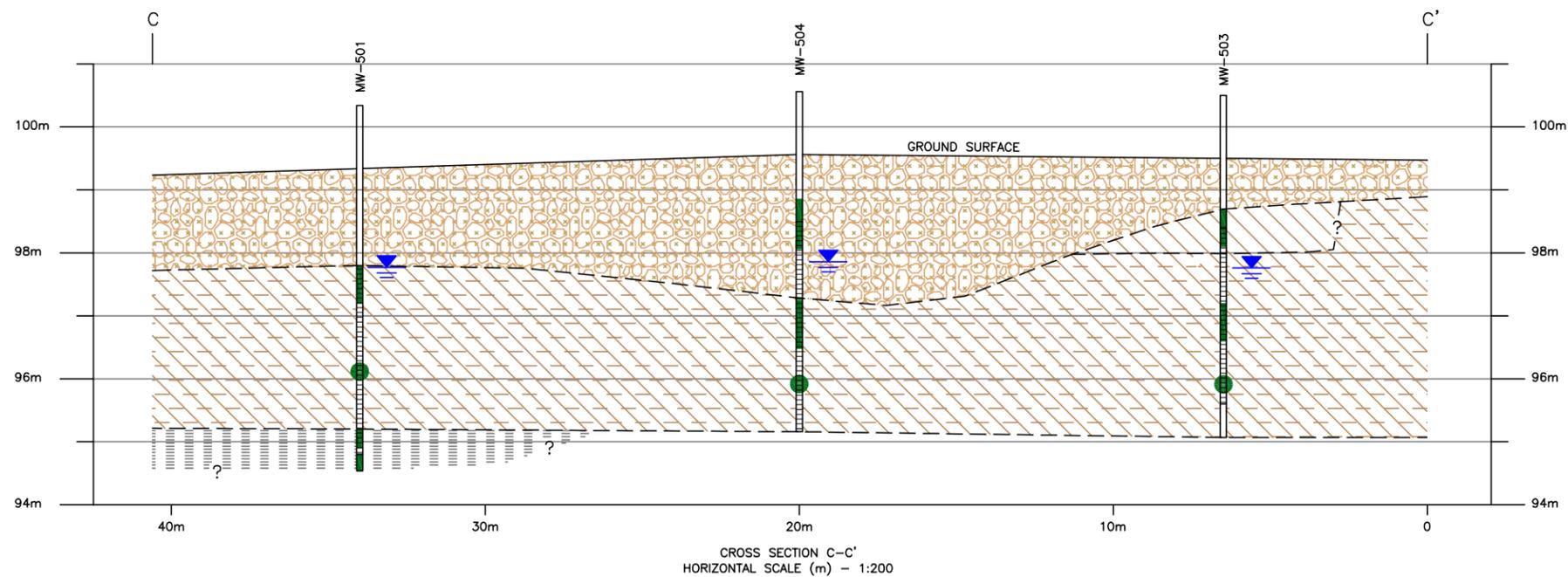
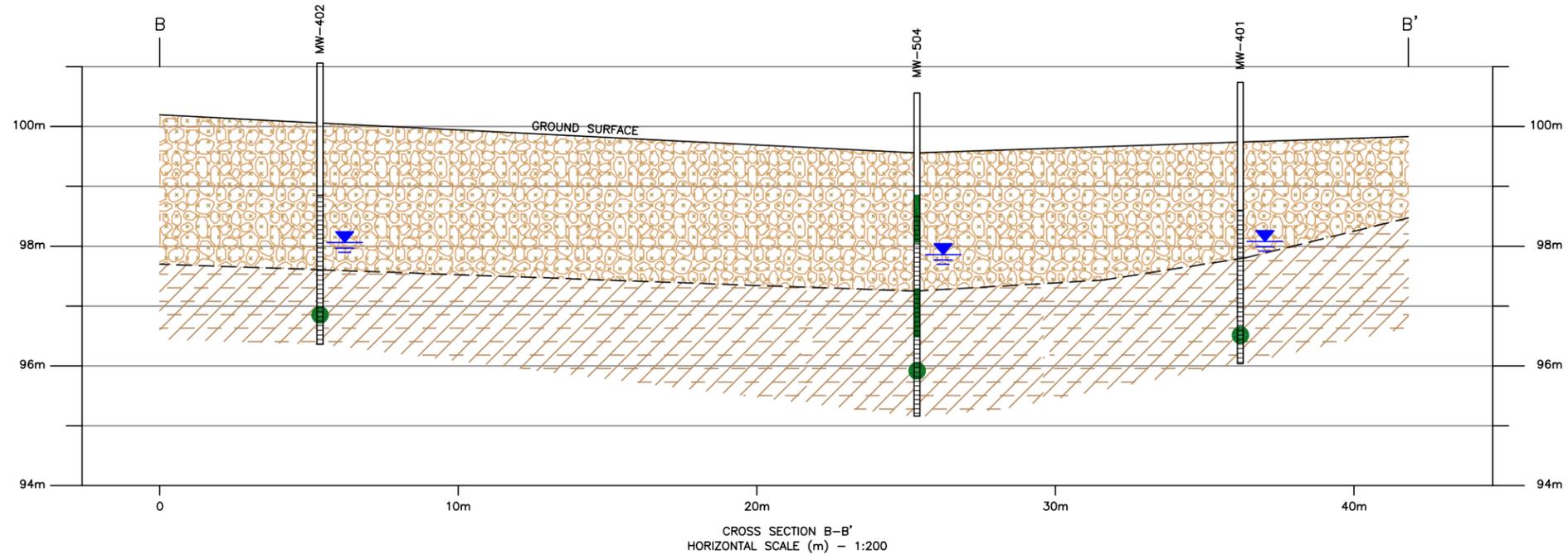
	WATER LEVEL MEASURED IN JUNE 2012		CLAY		ANALYSED SOIL SAMPLE WHERE ALL ANALYSED PARAMETERS MET THE SELECTED STANDARDS, SHOWN IN GREEN (SOIL SAMPLING EVENT - AUGUST 2010)
	MONITORING WELL WITH SCREEN INTERVAL		SANDY SILT		ANALYSED GROUNDWATER SAMPLE WHERE ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS, SHOWN IN GREEN (GROUNDWATER SAMPLING EVENTS - SEPTEMBER 2011 TO JUNE 2012)
	SAND AND GRAVEL FILL		SHALE		
	SILTY CLAY TILL				

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES



Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: GEOLOGIC CROSS SECTION A-A'	
Project No: S09125	Filename: 20F08_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 8
Drawn: DM	Verified:	Project Manager:	





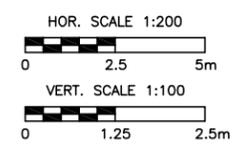
LEGEND

	WATER LEVEL MEASURED IN JUNE 2012		CLAY		ANALYSED SOIL SAMPLE WHERE ALL ANALYSED PARAMETERS MET THE SELECTED STANDARDS, SHOWN IN GREEN (SOIL SAMPLING EVENT - AUGUST 2010)
	MONITORING WELL WITH SCREEN INTERVAL		SANDY SILT		ANALYSED GROUNDWATER SAMPLE WHERE ALL ANALYSED PARAMETERS SATISFY THE SELECTED STANDARDS, SHOWN IN GREEN (GROUNDWATER SAMPLING EVENTS - SEPTEMBER 2011 TO JUNE 2012)
	SAND AND GRAVEL FILL		SHALE		
	SILTY CLAY TILL				

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES



Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: GEOLOGIC CROSS SECTIONS B-B' AND C-C'	
Project No: S09125	Filename: 20F09_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 9
Drawn: DM	Verified:	Project Manager:	



TABLES

TABLE 1 SOIL ANALYTICAL RESULTS
Petroleum Parameters
3005 Dundas Street West, Oakville, ON

SLE Sample No.	RDL	Units	MOE Standard Table 2 ¹	BH-501-3	BH-501-6B	BH-501-7	BH-502-3	BH-502-5	BH-503-2	BH-503-4
<i>Laboratory Sample No.</i>	na	na	na	<i>GW6731</i>	<i>GW6732</i>	<i>GW6733</i>	<i>GW6734</i>	<i>GW6735</i>	<i>GW6736</i>	<i>GW6737</i>
<i>Sampling Date</i>	na	na	na	<i>19-Aug-10</i>						
<i>Borehole No.</i>	na	na	na	<i>BH-501</i>	<i>BH-501</i>	<i>BH-501</i>	<i>BH-502</i>	<i>BH-502</i>	<i>BH-503</i>	<i>BH-503</i>
<i>Sample Depth</i>	na	m bgs	na	<i>1.0 - 1.5</i>	<i>4.1-4.4</i>	<i>4.6-5.2</i>	<i>1.5-2.1</i>	<i>3.0-3.6</i>	<i>0.8-1.4</i>	<i>2.3-2.9</i>
<i>OVM Reading</i>	na	see note	na	<i>50</i>	<i>75</i>	<i>225</i>	<i><25</i>	<i><25</i>	<i><25</i>	<i><25</i>
Benzene	0.002	µg/g	0.24	0.006	0.015	0.014	0.007	0.005	0.007	0.006
Toluene	0.002	µg/g	2.1	0.010	0.016	0.015	0.011	0.011	0.011	0.012
Ethylbenzene	0.002	µg/g	0.28	0.003	0.011	0.004	0.002	<	0.002	<
Xylenes	0.002	µg/g	25	0.016	0.015	0.012	0.016	0.014	0.017	0.016
Methyl t-butyl ether (MTBE)	0.002	na	5.7	<	<	<	<	0.39	<	<
PHC F1	10	µg/g	180	25	<	<	<	<	<	<
PHC F2	10	µg/g	250	13	<	<	<	<	10	<
PHC F3	10	µg/g	800	50	<	<	<	<	58	<
PHC F4	10	µg/g	5600	500	<	14	<	<	400	<
Moisture	1	%	na	15	8	10	15	10	14	10

µg/g micrograms per gram
RDL reportable detection limit unless noted
m bgs metres below ground surface
OVM Reading organic vapour meter reading (in ppmv unless noted)
ppmv parts per million by volume
% LEL percent of the lower explosive limit of hexane
na not applicable
ns no standard
< less than RDL
<### less than adjusted RDL (###)
- not analysed
¹ Table 2 full depth generic site condition standards in a potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2004).

<### adjusted RDL (###) exceeds soil site condition standard
BOLD exceeds selected Table 2 standard

TABLE 1 SOIL ANALYTICAL RESULTS
Petroleum Parameters
3005 Dundas Street West, Oakville, ON

SLE Sample No.	RDL	Units	MOE Standard Table 2 ¹	BH-504-2	BH-504-4	BH-504-44
						Field Duplicate of BH-504-4
<i>Laboratory Sample No.</i>	na	na	na	GW6738	GW6739	GW6740
<i>Sampling Date</i>	na	na	na	19-Aug-10	19-Aug-10	19-Aug-10
<i>Borehole No.</i>	na	na	na	BH-504	BH-504	BH-504
<i>Sample Depth</i>	na	m bgs	na	0.8-1.4	2.3-2.9	2.3-2.9
<i>OVM Reading</i>	na	see note	na	<25	<25	<25
Benzene	0.002	µg/g	0.24	0.005	0.006	0.006
Toluene	0.002	µg/g	2.1	0.008	0.010	0.012
Ethylbenzene	0.002	µg/g	0.28	0.002	<	<
Xylenes	0.002	µg/g	25	0.008	0.012	0.014
Methyl t-butyl ether (MTBE)	0.002	na	5.7	<	0.15	0.23
PHC F1	10	µg/g	180	<	<	<
PHC F2	10	µg/g	250	<	<	<
PHC F3	10	µg/g	800	<	<	<
PHC F4	10	µg/g	5600	<	<	<
Moisture	1	%	na	4	11	12

µg/g micrograms per gram
RDL reportable detection limit unless noted
m bgs metres below ground surface
OVM Reading organic vapour meter reading (in ppmv unless noted)
ppmv parts per million by volume
% LEL percent of the lower explosive limit of hexane
na not applicable
ns no standard
< less than RDL
<### less than adjusted RDL (###)
- not analysed
¹ Table 2 full depth generic site condition standards in a potable groundwater condition for residential/parkland/institutional property use, medium and fine textured soils (MOE, 2004).

<### adjusted RDL (###) exceeds soil site condition standard
BOLD exceeds selected Table 2 standard

TABLE 2 MONITORING RESULTS
3005 Dundas Street West, Oakville, ON (On-site)

(see notes at end of table, check LNAPL occurrence in following table)

Location	Ground Elev	Screen Top Elev	Bottom of Well Elev	Monitoring Date	OVM Reading	LNAPL Present In Well Or Skimmer	Depth to Water (m bgs)	Water Elevation (m)
MW-401	99.74	98.56	96.12	25-Aug-10	25	nd	1.56	98.18
				15-Oct-10	25	nd	1.32	98.42
				15-Oct-10	nm	nd	0.85	98.90 *
				15-Oct-10	nm	nd	1.21	98.54
				29-Oct-10	150	nd	1.50	98.25
				12-Nov-10	50	nd	1.70	98.04
				09-Dec-10	<25	nd	1.51	98.23
				22-Feb-11	25	nd	1.50	98.24
				28-Jun-11	100	nd	1.61	98.13
				15-Jul-11	25	nd	1.76	97.98
				09-Sep-11	25	nd	1.71	98.04
				06-Dec-11	<25	nd	1.20	98.55
				22-Mar-12	25	nd	1.50	98.25
				26-Jun-12	25	nd	1.66	98.08
MW-402	100.06	98.90	96.46	25-Aug-10	75	nd	1.95	98.11
				15-Oct-10	nm	nd	1.55	98.51
				15-Oct-10	nm	nd	1.51	98.55
				15-Oct-10	75	nd	1.65	98.41
				29-Oct-10	100	nd	1.83	98.23
				12-Nov-10	50	nd	2.03	98.03
				09-Dec-10	25	nd	1.84	98.22
				22-Feb-11	<25	nd	1.83	98.23
				28-Jun-11	25	nd	1.94	98.12
				09-Sep-11	75	nd	2.03	98.03
				06-Dec-11	<25	nd	1.51	98.55
				22-Mar-12	25	nd	1.83	98.23
				26-Jun-12	50	nd	2.00	98.06
				MW-403	100.20	99.02	96.58	25-Aug-10
09-Dec-10	<25	nd	1.68					98.52
22-Feb-11	50	nd	1.37					98.83
28-Jun-11	50	nd	0.94					99.26 *
09-Sep-11	75	nd	2.03					98.18
06-Dec-11	<25	nd	0.51					99.69 *
22-Mar-12	<25	nd	0.92					99.28 *
26-Jun-12	<25	nd	1.05	99.15 *				

TABLE 2 MONITORING RESULTS
3005 Dundas Street West, Oakville, ON (On-site)

(see notes at end of table, check LNAPL occurrence in following table)

Location	Ground Elev (m)	Screen Top Elev (m)	Bottom of Well Elev (m)	Monitoring Date	OVM Reading	LNAPL Present In Well Or Skimmer	Depth to Water (m bgs)	Water Elevation (m)	
MW-404	99.93	98.70	96.26	25-Aug-10	<25	nd	1.18	98.75	*
				09-Dec-10	<25	nd	1.15	98.78	*
				22-Feb-11	150	nd	1.22	98.70	*
				28-Jun-11	25	nd	1.20	98.72	*
				09-Sep-11	25	nd	1.18	98.74	*
				06-Dec-11	<25	nd	0.91	99.02	*
				22-Mar-12	50	nd	1.17	98.75	*
				26-Jun-12	100	nd	1.37	98.56	
MW-405	99.96	98.72	96.28	25-Aug-10	75	nd	1.37	98.59	
				09-Dec-10	25	nd	1.13	98.83	*
				22-Feb-11	125	nd	1.70	98.26	
				28-Jun-11	75	nd	1.21	98.75	*
				09-Sep-11	100	nd	1.41	98.55	
				07-Dec-11	<25	nd	0.55	99.41	*
				22-Mar-12	<25	nd	1.04	98.92	*
				26-Jun-12	<25	nd	1.24	98.72	*
MW-501	99.34	97.82	94.78	23-Aug-10	100	nd	1.54	97.81	
				25-Aug-10	<25	nd	1.55	97.79	
				09-Dec-10	25	nd	1.43	97.91	*
				22-Feb-11	<25	nd	1.42	97.93	*
				28-Jun-11	25	nd	1.53	97.81	
				09-Sep-11	25	nd	1.62	97.72	
				07-Dec-11	<25	nd	1.12	98.22	*
				22-Mar-12	<25	nd	1.42	97.93	*
26-Jun-12	<25	nd	1.57	97.77					
MW-502	99.45	98.39	95.65	23-Aug-10	75	nd	1.64	97.81	
				25-Aug-10	50	nd	1.65	97.80	
				15-Oct-10	50	nd	1.35	98.10	
				15-Oct-10	nm	nd	1.26	98.19	
				15-Oct-10	nm	nd	1.27	98.19	
				29-Oct-10	75	nd	1.53	97.93	
				12-Nov-10	50	nd	1.73	97.72	
				09-Dec-10	50	nd	1.54	97.91	
				22-Feb-11	50	nd	1.53	97.92	
				28-Jun-11	<25	nd	1.64	97.81	

TABLE 2 MONITORING RESULTS
3005 Dundas Street West, Oakville, ON (On-site)

(see notes at end of table, check LNAPL occurrence in following table)

Location	Ground Elev	Screen Top Elev	Bottom of Well Elev	Monitoring Date	OVM Reading	LNAPL Present In Well Or Skimmer	Depth to Water (m bgs)	Water Elevation (m)
MW-502	99.45	98.39	95.65	09-Sep-11	25	nd	1.74	97.71
				07-Dec-11	<25	nd	1.22	98.24
				22-Mar-12	25	nd	1.52	97.93
				26-Jun-12	40	nd	1.69	97.77
MW-503	99.48	98.41	95.68	23-Aug-10	75	nd	1.67	97.81
				25-Aug-10	50	nd	1.68	97.80
				15-Oct-10	50	nd	1.38	98.10
				15-Oct-10	nm	nd	1.28	98.20
				15-Oct-10	nm	nd	1.23	98.24
				29-Oct-10	75	nd	1.55	97.92
				12-Nov-10	50	nd	1.76	97.72
				09-Dec-10	50	nd	1.57	97.90
				22-Feb-11	75	nd	1.55	97.92
				28-Jun-11	75	nd	1.66	97.81
				09-Sep-11	75	nd	1.76	97.72
				07-Dec-11	25	nd	1.25	98.23
				22-Mar-12	50	nd	1.55	97.93
				26-Jun-12	125	nd	1.71	97.76
MW-504	99.56	98.46	95.76	23-Aug-10	75	nd	1.74	97.82
				25-Aug-10	75	nd	1.70	97.86
				15-Oct-10	100	nd	1.43	98.12
				15-Oct-10	nm	nd	1.43	98.13
				15-Oct-10	nm	nd	1.38	98.18
				29-Oct-10	50	nd	1.57	97.98
				12-Nov-10	75	nd	1.74	97.82
				09-Dec-10	25	nd	1.61	97.95
				22-Feb-11	50	nd	1.60	97.95
				28-Jun-11	75	nd	1.66	97.89
				09-Sep-11	75	nd	1.67	97.88
				07-Dec-11	<25	nd	1.24	98.32
				22-Mar-12	25	nd	1.59	97.96
				26-Jun-12	75	nd	1.70	97.86

TABLE 2 MONITORING RESULTS
3005 Dundas Street West, Oakville, ON (On-site)

(see notes at end of table, check LNAPL occurrence in following table)

Location	Ground Elev	Screen Top Elev	Bottom of Well Elev	Monitoring Date	OVM Reading	LNAPL Present In Well Or Skimmer	Depth to Water (m bgs)	Water Elevation (m)
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Explanatory Notes:

- o Elevations reported according to benchmark.
- o Water elevations NOT corrected for LNAPL, if present.
- o Water depths reported below ground surface (bgs).
- o Water depths measured using Heron Instruments interface probe (or equivalent) after removal of skimmer (if present).
- o Organic vapour meter (OVM) reading measured using Gastech 1238 ME (or equivalent) and reported in ppmv (parts per million by volume) unless noted as %LEL (lower explosive limit of hexane).

(s) indicates skimmer present in well.

(*) indicates water level higher than top of well screen.

(s*) indicates skimmer present and water level higher than well screen.

(nm) indicates well not monitored, (na) well not accessible or (nd) if not detected.

Benchmark:

local (m ald), reference elevation (m) - 100

reference point - Sanitary sewer manhole cover, southeast corner of the site.

TABLE 3 **GEOCHEMICAL FIELD MEASUREMENTS**
3005 Dundas Street West, Oakville, ON

Sampling Location	Date	Temperature	pH	Sodium Persulphate	Conductivity @ 25°C
	<i>RDL</i>	na	na		na
	<i>Units</i>	°C	pH units	mg/L	mS/cm
MW-401	25-Aug-10	19.9	7.28	0.0	0.44
	15-Oct-2010 (Pre Inj)	14.5	7.96	0.0	0.39
	15-Oct-10 (Dur Inj)	14.7	13.12	>70	32.32
	15-Oct-2010 (Post Inj)	14.3	10.05	5.6	0.45
	29-Oct-10	13.1	7.50	>70	0.82
	12-Nov-10	12.2	7.80	14.0	0.80
	09-Dec-10	6.9	7.57	0.0	0.40
	22-Feb-11	3.2	7.93	0.0	0.48
	28-Jun-11	13.2	7.31	0.0	nm
	09-Sep-11	20.7	7.42	0.0	0.44
	07-Dec-11	8.4	7.77	0.0	0.22
	22-Mar-12	11.0	7.73	nm	0.53
26-Jun-12	19.7	7.26	nm	1.27	
MW-402	25-Aug-10	20.0	7.02	0.0	1.83
	15-Oct-2010 (Pre Inj)	16.1	6.72	0.0	1.48
	15-Oct-10 (Dur Inj)	16.4	10.02	nm	1.65
	15-Oct-2010 (Post Inj)	16.1	8.45	>70	1.49
	29-Oct-10	14.3	7.07	>70	1.98
	12-Nov-10	13.0	7.30	>70	1.85
	09-Dec-10	7.7	7.18	>70	1.86
	25-Feb-11	3.1	7.44	70	1.34
	28-Jun-11	16.4	6.94	56	nm
	09-Sep-11	20.3	7.07	0.0	1.38
	07-Dec-11	9.0	7.47	0.0	1.62
	22-Mar-12	8.4	7.16	nm	3.36
26-Jun-12	19.0	7.10	nm	2.91	
MW-403	25-Aug-10	20.6	6.92	0.0	1.53
	09-Dec-10	7.2	6.94	0.0	1.41
	25-Feb-11	3.2	7.21	nm	1.32
	28-Jun-11	17.8	6.72	nm	nm
	09-Sep-11	20.1	7.04	nm	1.34
	07-Dec-11	9.7	7.17	nm	0.80
	22-Mar-12	8.8	7.37	nm	1.12
	26-Jun-12	20.8	7.52	nm	0.86
MW-404	25-Aug-10	21.4	6.63	0.0	3.48
	09-Dec-10	7.6	6.59	0.0	3.54
	25-Feb-11	4.0	5.55	nm	3.05
	28-Jun-11	14.8	6.68	nm	nm
	09-Sep-11	21.3	6.79	nm	2.95
	07-Dec-11	10.3	6.81	nm	2.19
	22-Mar-12	10.4	6.98	nm	3.03
	26-Jun-12	18.0	6.87	nm	3.61
MW-405	25-Aug-10	21.0	6.65	0.0	3.73
	09-Dec-10	7.5	6.70	0.0	3.62
	25-Feb-11	4.4	6.66	nm	3.21
	28-Jun-11	15.1	6.48	nm	nm
	09-Sep-11	21.2	6.76	nm	3.18
	07-Dec-11	9.1	6.83	nm	2.49
	22-Mar-12	9.3	7.08	nm	3.76
	26-Jun-12	20.0	6.86	nm	3.78

TABLE 3 **GEOCHEMICAL FIELD MEASUREMENTS**
3005 Dundas Street West, Oakville, ON

Sampling Location	Date	Temperature	pH	Sodium Persulphate	Conductivity @ 25°C
	<i>RDL</i>	na	na		na
	<i>Units</i>	°C	pH units	mg/L	mS/cm
MW-501	25-Aug-10	19.6	7.12	0.0	0.73
	09-Dec-10	8.6	7.18	0.0	1.00
	25-Feb-11	2.8	9.05	nm	0.64
	28-Jun-11	13.9	6.70	0.0	nm
	09-Sep-11	19.7	7.41	nm	0.80
	07-Dec-11	11.1	7.87	nm	0.72
	22-Mar-12	9.7	8.86	nm	0.89
	26-Jun-12	18.6	8.58	nm	1.04
MW-502	25-Aug-10	19.5	6.93	0.0	1.32
	15-Oct-2010 (Pre Inj)	16.0	7.29	0.0	0.79
	15-Oct-2010 (Dur Inj)	15.7	7.58	nm	0.78
	15-Oct-2010 (Post Inj)	15.6	8.95	70	0.93
	29-Oct-10	13.6	7.10	>70	1.65
	12-Nov-10	12.7	7.25	>70	2.09
	09-Dec-10	8.5	7.09	21	1.75
	25-Feb-11	3.0	6.29	14	1.04
	28-Jun-11	15.0	7.19	0.0	nm
	09-Sep-11	20.2	7.26	0.0	0.81
	07-Dec-11	10.5	7.46	0.0	0.81
	22-Mar-12	9.6	7.43	nm	1.06
	26-Jun-12	18.5	7.27	nm	1.35
	MW-503	25-Aug-10	19.3	6.84	0.0
15-Oct-2010 (Pre Inj)		15.4	7.11	0.0	0.91
15-Oct-2010 (Dur Inj)		15.5	9.11	nm	0.89
15-Oct-2010 (Post Inj)		14.9	8.40	7.0	0.89
29-Oct-10		13.8	6.99	1.4	1.39
12-Nov-10		13.1	7.32	0.0	1.59
09-Dec-10		10.1	6.98	0.0	1.79
25-Feb-11		4.1	7.72	0.0	2.63
28-Jun-11		15.8	6.96	0.0	nm
09-Sep-11		19.7	7.06	0.0	1.55
07-Dec-11		8.6	7.32	0.0	0.73
22-Mar-12		9.8	7.28	nm	1.31
26-Jun-12		19.0	7.15	nm	1.64
MW-504		25-Aug-10	20.6	6.89	0.0
	15-Oct-2010 (Pre Inj)	15.8	6.77	0.0	1.16
	15-Oct-10 (Dur Inj)	16.0	7.14	nm	1.16
	15-Oct-2010 (Post Inj)	15.8	8.34	21	1.17
	29-Oct-10	14.0	6.98	0.0	1.17
	12-Nov-10	12.5	7.27	0.0	1.40
	09-Dec-10	8.7	6.93	0.0	1.27
	25-Feb-11	3.6	7.40	0.0	1.17
	28-Jun-11	16.4	7.07	0.0	nm
	09-Sep-11	20.9	7.08	0.0	1.11
	07-Dec-11	11.0	7.06	0.0	0.94
	22-Mar-12	10.1	7.31	nm	1.44
	26-Jun-12	19.6	7.14	nm	1.61

Note: - Temperature, pH and conductivity measurements taken with YSI-556 down hole probe
RDL reportable detection limit
< less than RDL
na not applicable
nm not monitored
mV millivolts
mS milliSiemens

**TABLE 4 GROUNDWATER ANALYTICAL RESULTS
PETROLEUM HYDROCARBONS
3005 Dundas Street West, Oakville, ON**

Sampling Location	Laboratory Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl t-butyl ether (MTBE)	PHC F1+F2	PHC F3+F4
		RDL	0.2	0.2	0.2	0.4	0.2	100	100
		MOE Table 2 Standards²	5	24	2.4	300	700	<1,000	<1,000
MW-401	MW-401	25-Aug-10	<u>9.9</u>	0.5	1.9	0.7	7.2	250	<
	BH-98	Field Duplicate	<u>9.0</u>	0.5	1.6	0.6	6.8	240	<
	MW-401	10-Dec-10	2.3	<1	0.6	1.4	<4	150	<
	BH-98	Field Duplicate	1.9	<0.5	0.6	1.7	<2	110	<
	MW-401	25-Feb-11	<	<	<	0.9	<0.4	980	<
	BH-98	Field Duplicate	0.5	<	<	1.7	<0.4	790	<
	MW-401	29-Jun-11	<u>9.0</u>	<	0.2	0.9	4.4	<	<
	BH-98	Field Duplicate	<u>9.9</u>	<	0.2	0.9	4.8	<	<
	MW-401	15-Jul-11	<u>35.0</u>	<1	0.7	1.8	11	<	<
	MW-401(Low Flow)	15-Jul-11	<u>32.0</u>	<1	<0.5	0.6	10	120	<
	MW-401	09-Sep-11	0.4	0.2	0.1	0.8	<2	35	<
	BH-98	Field Duplicate	0.4	<	0.1	0.8	<2	<	<
	MW-401	07-Dec-11	<0.1	<	<0.1	<0.1	<	<	<
	MW-401	Laboratory Duplicate	-	-	-	-	-	-	-
	BH-98	Field Duplicate	<0.1	<	<0.1	<0.1	<	<	<
	MW-401	22-Mar-12	0.4	<	0.2	0.4	<0.4	<	<
	BH-98	Field Duplicate	0.4	<	0.2	0.3	0.4	<	<
MW-401	26-Jun-12	1.1	<	0.2	<0.1	6.3	<	<	
BH-98	Field Duplicate	1.2	<	0.2	0.1	6.3	<	<	
MW-402	MW-402	25-Aug-10	<0.1	<	<0.1	<0.1	26	<	<
	MW-402	09-Dec-10	<2	<4	<2	<2	390	<	<
	MW-402	25-Feb-11	<	<	<	<	9.3	<	<
	MW-402	29-Jun-11	<1	<2	<1	<1	330	<	<
	MW-402	09-Sep-11	<0.5	<1	<0.5	<0.5	55	<	<
	MW-402	07-Dec-11	<0.1	<	<0.1	<0.1	95	<	<
	MW-402	22-Mar-12	<0.2	<0.2	<0.2	<0.4	450	<	<
	MW-402 (BTEX run)	22-Mar-12	<	<	<	<	-	-	-
	MW-402	26-Jun-12	<0.2	<0.2	<0.2	<0.4	510	<	<
	MW-402 (BTEX Run)	26-Jun-12	<	<	<	<	-	-	-
MW-403	MW-403	25-Aug-10	<0.1	<	<0.1	<0.1	11	<	<
	MW-403	Laboratory Duplicate	-	-	-	-	-	-	-
	MW-403	09-Dec-10	<0.1	<	<0.1	<0.1	4.6	<	<
	MW-403	25-Feb-11	<	<	<	<	0.8	<	<
	MW-403	29-Jun-11	<0.1	<	<0.1	<0.1	0.2	<	<
	MW-403	09-Sep-11	<0.1	<	<0.1	<0.1	6.5	<	<
	MW-403	07-Dec-11	<0.1	<	<0.1	<0.1	0.31	<	<
	MW-403	22-Mar-12	<0.1	<	<0.1	<0.1	0.25	<	<
MW-403	26-Jun-12	<0.1	<	<0.1	<0.1	0.24	<	<	
MW-404	MW-404	25-Aug-10	<0.1	<	<0.1	<0.1	44	<	<
	MW-404	Laboratory Duplicate	-	-	-	-	-	-	-
	MW-404	09-Dec-10	<0.5	<1	<0.5	<0.5	53	<	<
	MW-404	25-Feb-11	<	<	<	<	36	<	<
	MW-404	29-Jun-11	<	<0.4	<	<	43	<	<
	MW-404	09-Sep-11	<	<0.4	<0.2	<0.2	11	<	<
	MW-404	07-Dec-11	<0.1	<	<0.1	<0.1	21	<	<
	MW-404	22-Mar-12	<	<0.4	<0.2	<0.2	24	<	<
MW-404	26-Jun-12	<0.1	<	<0.1	<0.1	26	<	<	

**TABLE 4 GROUNDWATER ANALYTICAL RESULTS
PETROLEUM HYDROCARBONS
3005 Dundas Street West, Oakville, ON**

Sampling Location	Laboratory Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl t-butyl ether (MTBE)	PHC F1+F2	PHC F3+F4
		RDL	0.2	0.2	0.2	0.4	0.2	100	100
		MOE Table 2 Standards²	5	24	2.4	300	700	<1,000	<1,000
MW-405	MW-405	25-Aug-10	0.4	<	<0.1	<0.1	53	<	<
	MW-405	09-Dec-10	<0.1	<	<0.1	<0.1	13	<	<
	MW-405	25-Feb-11	<	<	<	<	4.9	<	<
	MW-405	29-Jun-11	<0.1	<	<0.1	<0.1	7.1	<	<
	MW-405	09-Sep-11	<0.1	<	<0.1	<0.1	4.4	<	<
	MW-405	07-Dec-11	<0.1	<	<0.1	<0.1	1.8	<	<
	MW-405	22-Mar-12	<0.1	<	<0.1	<0.1	1.1	<	<
	MW-405	26-Jun-12	<0.1	<	<0.1	<0.1	1.2	<	<
MW-501	MW-501	25-Aug-10	<0.1	<	<0.1	<0.1	13	<	<
	MW-501	Laboratory Duplicate	<0.1	<	<0.1	<0.1	14	-	-
	MW-501	09-Dec-10	<0.1	<	<0.1	<0.1	9.4	<	<
	MW-501	Laboratory Duplicate	<0.1	<	<0.1	<0.1	8.9	<	<
	MW-501	25-Feb-11	<0.1	<	<0.1	<0.1	1.1	<	<
	MW-501	29-Jun-11	<0.1	<	<0.1	<0.1	1.2	<	<
	MW-501	09-Sep-11	<0.1	<	<0.1	<0.1	0.7	<	<
	MW-501	07-Dec-11	<0.1	<	<0.1	<0.1	3.3	<	<
	MW-501	22-Mar-12	<0.1	<	<0.1	<0.1	4.7	<	<
	MW-501	26-Jun-12	0.1	<	<0.1	0.1	2.5	<	<
MW-502	MW-502	25-Aug-10	0.2	<	<0.1	0.1	17	<	<
	MW-502	09-Dec-10	<0.1	<	<0.1	<0.1	9.5	<	<
	MW-502	25-Feb-11	<0.1	<	<0.1	<0.1	36	<	<
	MW-502	29-Jun-11	<0.1	<	<0.1	<0.1	4.3	<	<
	MW-502	Laboratory Duplicate	<0.1	<	<0.1	<0.1	4.4	<	<
	MW-502	09-Sep-11	<0.1	<	<0.1	<0.1	17	<	<
	MW-502	07-Dec-11	<0.1	<	<0.1	<0.1	2.9	<	<
	MW-502	22-Mar-12	0.2	0.3	<0.1	0.2	9.1	<	<
	MW-502	26-Jun-12	<0.1	<	<0.1	<0.1	8.7	<	<
	MW-503	MW-503	25-Aug-10	<1	<2	<1	<1	160	<
MW-503		09-Dec-10	<0.1	<	<0.1	<0.1	39	<	<
MW-503		25-Feb-11	<0.1	<	<0.1	<0.1	19	<	<
MW-503		29-Jun-11	<0.5	<1	<0.5	<0.5	89	<	<
MW-503		09-Sep-11	<5	<10	<5	<5	620	<	<
MW-503		07-Dec-11	<1	<2	<1	<1	160	<	<
MW-503		22-Mar-12	<0.2	<0.2	<0.2	<0.4	390	<	<
MW-503 (BTEX run)		22-Mar-12	<	<	<	<	-	-	-
MW-503	26-Jun-12	<	<0.4	<	<0.2	32	<	<	
MW-504	MW-504	25-Aug-10	<0.3	<0.5	<0.3	<0.3	60	<	<
	MW-504	09-Dec-10	<0.5	<1	<0.5	<0.5	69	<	<
	MW-504	25-Feb-11	<0.5	<1	<0.5	<0.5	65	<	<
	MW-504	29-Jun-11	<0.1	<	<0.1	<0.1	34	<	<
	MW-504	09-Sep-11	<	<0.4	<	<0.2	47	<	<
	MW-504	07-Dec-11	<0.1	<	<0.1	<0.1	6.5	<	<
	MW-504	22-Mar-12	<	<0.4	<	<0.2	33	<	<
	MW-504	26-Jun-12	<0.1	<	<0.1	0.1	20	<	<

**TABLE 4 GROUNDWATER ANALYTICAL RESULTS
PETROLEUM HYDROCARBONS
3005 Dundas Street West, Oakville, ON**

Sampling Location	Laboratory Sample ID	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Methyl t-butyl ether (MTBE)	PHC F1+F2	PHC F3+F4
		RDL	0.2	0.2	0.2	0.4	0.2	100	100
		MOE Table 2 Standards²	5	24	2.4	300	700	<1,000	<1,000
Field Blank	BH-99	25-Aug-10	<	<	<	<	-	<	<
	BH-99	09-Dec-10	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	25-Feb-11	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	29-Jun-11	<	<	<	<	<	<	<
	BH-99	Laboratory Duplicate	<	<	<	<	-	-	-
	BH-99	15-Jul-11	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	Laboratory Duplicate	-	-	-	-	-	<	<
	BH-99	09-Sep-11	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	07-Dec-11	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	22-Mar-12	<0.1	<	<0.1	<0.1	<	<	<
	BH-99	26-Jun-12	<0.1	<	<0.1	<0.1	<	<	<
Trip Blank	TRIP BLANK	25-Aug-10	<	<	<	<	-	-	-
	TRIP BLANK	09-Dec-10	<	<	<	<	-	<	-
	TRIP BLANK	25-Feb-11	<	<	<	<	-	-	-
	TRIP BLANK	29-Jun-11	<	<	<	<	-	-	-
	TRIP BLANK	15-Jul-11	<0.2	<	<0.2	<0.4	-	-	-
	TRIP BLANK	09-Sep-11	<0.2	<	<0.2	<0.4	-	-	-
	TRIP BLANK	07-Dec-11	<0.1	<	<0.1	<0.1	<0.2	-	-
	TRIP BLANK	22-Mar-12	<	<	<	<	-	-	-
	TRIP BLANK	26-Jun-12	<	<	<	<	-	-	-

Note: Concentrations in µg/L (unless noted)

RDL reportable detection limit
 < not detected above RDL provided
 <## RDL adjusted to ## due to dilution
 ns no standard
 - not analyzed
² Table 2 full depth generic site condition standards in a potable groundwater condition for all types of property uses (MOE, 2004).
500 exceeds groundwater standard
 <## adjusted detection limit (##) exceeds standard

TABLE 5

**MAXIMUM POST-REMEDIAL SOIL CONCENTRATIONS
3005 Dundas Street West, Oakville, ON**

Parameters	RDL	Units	Maximum Concentration	Location Found	SLE Sample ID No.	Sampling Depth (mbg)
<i>BTEX</i>						
Benzene	0.02	µg/g	0.015	BH-501	BH-501-6B	4.1 - 4.4
Toluene	0.02	µg/g	0.016	BH-501	BH-501-6B	4.1 - 4.4
Ethylbenzene	0.02	µg/g	0.011	BH-501	BH-501-6B	4.1 - 4.4
Xylenes	0.02	µg/g	0.017	BH-503	BH-503-2	0.8 - 1.4
<i>Petroleum Hydrocarbon (PHC) Fractions</i>						
PHC F1	10	µg/g	25	BH-501	BH-501-3	1.0 - 1.5
PHC F2	10	µg/g	13	BH-501	BH-501-3	1.0 - 1.5
PHC F3	10	µg/g	58	BH-503	BH-503-2	0.8 - 1.4
PHC F4	10	µg/g	500	BH-501	BH-501-3	1.0 - 1.5
<i>VOCs*</i>						
Methyl t-butyl ether (MTBE)	0.002	µg/g	0.39	BH-502	BH-502-5	3.0 - 3.6

µg/g - micrograms per gram

RDL - Reportable Detection Limit

< - maximum concentration below the RDL

mbg - meters below grade

*Maximum concentrations of additional analyzed parameters (i.e. other VOCs, Metals, and PAHs) not included in the Groundwater Remediation Program are included in the RSC Submission.

TABLE 6

**MAXIMUM POST-REMEDIAL GROUNDWATER CONCENTRATIONS
3005 Dundas Street West, Oakville, ON**

Parameters	RDL	Units	Maximum Concentration	Location Found	SLE Sample ID No.	Sampling Depth (mbg)
<i>BTEX</i>						
Benzene	0.20	µg/L	1.2	MW-401	MW-401	1.2 - 3.6
Toluene	0.20	µg/L	0.3	MW-502	MW-502	1.1 - 3.8
Ethylbenzene	0.20	µg/L	0.2	MW-401	MW-401	1.2 - 3.6
Xylenes	0.20	µg/L	0.8	MW-401	MW-401	1.2 - 3.6
<i>Petroleum Hydrocarbon (PHC) Fractions</i>						
PHC F1	25	µg/L	35	MW-401	MW-401	1.2 - 3.6
PHC F2	100	µg/L	<100	MW-401	MW-401	1.2 - 3.6
PHC F3	100	µg/L	<100	All Monitoring Wells	Various	Various
PHC F4	100	µg/L	<100	All Monitoring Wells	Various	Various
<i>VOCs*</i>						
Methyl t-butyl ether (MTBE)	0.2	µg/L	620	MW-503	MW-503	1.1 - 3.8

µg/L - micrograms per litre

RDL - Reportable Detection Limit

< - maximum concentration below the RDL

mbg - meters below grade

*Maximum concentrations of additional analyzed parameters (i.e. other VOCs, Metals, and PAHs) not included in the Groundwater Remediation Program are included in the RSC Submission.

APPENDIX A

TRANSITION NOTICE

Personal information requested on this form is collected under the authority of Ontario Regulation 153/04. Information will be used to document this notice under section 21.1 of Ontario Regulation 153/04, which permits an owner of property to submit a Record of Site Condition (RSC) for filing for all or part of the property described in this notice using the "March 9, 2004 Soil, Ground Water and Sediment Standards" after July 1, 2011 and before January 1, 2013. Questions about this collection should be directed to the Information Unit Supervisor, Environmental Assessment and Approvals Branch, by e-mail at EAABGen@ontario.ca or by telephone at 1-800-461-6290 (or in Toronto at 416-314-8001).

This form is used to provide notice to the Director under section 21.1 of Ontario Regulation 153/04 that an owner of property wishes to submit a RSC for filing using the "March 9, 2004 Soil, Ground Water and Sediment Standards" after July 1, 2011 and before January 1, 2013. This form must be submitted via email to the Ministry of the Environment (the Ministry) between July 1, 2010 and December 31, 2010 in order for an owner to be eligible to submit a RSC for filing using the "March 9, 2004 Soil, Ground Water and Sediment Standards" after July 1, 2011 and before January 1, 2013. The Ministry will send an acknowledgement that this notice has been received to the owner.

When submitting a RSC for filing after July 1, 2011 but before January 1, 2013 using the "March 9, 2004 Soil, Ground Water and Sediment Standards," a copy of this completed notice form and a copy of the acknowledgement sent by the Ministry must be attached.

Information about the Property			
Address (Street Number and Name – if available)		City or Town	
3005 Dundas Street West		Oakville	
UTM Coordinates of the centroid of the RSC property, measured using a Global Positioning System			
Zone	Northing	Easting	
NAD83	17	N4809921.53	E598972.72
<input checked="" type="checkbox"/> A copy of the deed(s), transfer(s) or other document(s) by which the property was acquired by the owner is attached.			
<input checked="" type="checkbox"/> A plan of survey of the property, prepared, signed and sealed by a surveyor, is attached.			

Information about the Owner (please print)			
Owner's Name, where owner is an individual			
First Name	Middle Name / Initial	Last Name	
Firm, Company or Partnership Name, where the owner is not an individual			
Shell Canada Products			
Name of person who is authorized to sign for the owner, where the owner is not an individual			
First Name	Middle Name / Initial	Last Name	
Lee		Howell	
Owner's Address			
Street Number and Name		City or Town	Province Postal Code
90 Sheppard Ave East		Toronto	ON M2N6Y2
Telephone Number (including area code)		Fax Number (if any)	Email Address (if any)
416-5985563 ext.			lee.howell@shell.com

Owner's Certifications	
<input type="checkbox"/> I am the owner of this property, or <input checked="" type="checkbox"/> I am authorized to sign for the owner of this property.	
<i>(select one or both of the following, as applicable)</i>	
<input type="checkbox"/> A risk assessment with respect to a contaminant at the property has been submitted to the Ministry. Risk Assessment Number: _____ Date of Submission (yyyy/mm/dd): _____	
<input checked="" type="checkbox"/> Action to reduce the concentration of a contaminant on, in or under the property in order to meet a standard specified in a risk assessment accepted by the Director for the contaminant with respect to the property or, where none exists, the applicable site condition standard for the contaminant, has begun.	
I certify that the information provided in this form is true and accurate.	
Signature <i>L.A. Howard</i>	Date (yyyy/mm/dd) 2010/12/21

Qualified Person's Information <i>(must be a 'Qualified Person' as defined in s. 5 of O. Reg. 153/04)</i>		
First Name Meghan	Middle Name / Initial C	Last Name Fitz-James
Company Name <i>(if any)</i> SNC-Lavalin Environment		
Professional Affiliation(s) <i>(i.e. PEO and/or APGO)</i> PEO		
		Membership Number: 90554049

Qualified Person's Certifications	
<input checked="" type="checkbox"/> A phase one environmental site assessment of the property, which includes the evaluation of the information gathered from a records review, site visit and interviews, has been conducted in accordance with the regulation by or under the supervision of a qualified person as required by the regulation.	
Phase One Environmental Site Assessment Details	
Title of Phase One Environmental Site Assessment Report: <small>Shell Canada Products 3005 Dundas Street West, Oakville, ON (C05875) Phase I Environmental Site Assessment</small> Report Date: December 2010	
I certify that the information provided in this form is true and accurate.	
Signature <i>M Fitz-James</i>	Date (yyyy/mm/dd) 2010/12/21

<p>Instructions for preparing your electronic submission:</p> <ol style="list-style-type: none"> 1. Complete and print this form; 2. Sign the form; 3. Scan and produce a PDF copy of: <ol style="list-style-type: none"> a. The signed form; b. A copy of the deed(s), transfer(s), or other document(s) by which the property was acquired by the owner; and, c. A copy of a plan of survey showing the property, prepared, signed and sealed by a surveyor. 4. Submit your signed form and all other supporting information by email to: Reg153Notice@ontario.ca. <p>Please ensure that all submitted documents are legible and in PDF format, readable by Adobe Acrobat Reader® or other similar software. Questions about this form should be directed to Brownfields Filing and Review, Environmental Assessment and Approvals Branch by email to EAABGen@ontario.ca or by telephone, outside Toronto 1-800-461-6290 or in Toronto 416-314-8001.</p>

Information on Submitting a Notice under Section 21.1 of O. Reg. 153/04

Section 21.1 of the amended Regulation 153/04 takes effect on July 1, 2010. This section sets out requirements to allow an owner of property to use the "March 9, 2004 Soil, Ground Water and Sediment Standards" ("2004 standards") and associated provisions of the current regulation in certain circumstances after July 1, 2011.

If the owner meets the requirements of section 21.1, and the owner wishes to use the 2004 standards and is submitting a record of site condition for filing after July 1, 2011 but before January 1, 2013, the section allows the continued use of the 2004 standards and the associated provisions referenced in section 21.1.

In order for an owner to be eligible to do this, a **Notice** (see the form "Notice under Section 21.1 of Ontario Regulation 153/04) **must be completed and submitted** via email to the Ministry of Environment (the Ministry) **between July 1, 2010 and December 31, 2010** along with the necessary supporting documents.

Notices are to be emailed to: Reg153Notice@ontario.ca

The Ministry will send an acknowledgement that the *Notice* has been received to the owner.

In the *Notice*, the owner of the property must, among other things:

- certify that remediation has begun, or
- certify that a risk assessment, which has received a risk assessment number, has been submitted to the ministry, or
- certify both, and
- ensure a Qualified Person certifies that a Phase One ESA has been completed.

When submitting the *Notice* to the Ministry, the following supporting documents are to be attached to the email as PDF files:

1. a copy of the deed(s), transfer(s) or other document(s) by which the property was acquired by the owner and;
2. a copy of a plan of survey prepared, signed and sealed by a surveyor showing the property.

Section 21.1 permits only the use of the 2004 standards and the associated provisions referred to in the section. In all other respects, a record of site condition submitted after July 1, 2011 must meet the requirements of O. Reg. 153/04, as amended by O. Reg. 511/09, including the requirements which come into effect on July 1, 2011, such as new requirements for environmental site assessments.

Section 21.1 requires that when you are submitting a record of site condition for filing after July 1, 2011 and before January 1, 2013, and wish to use the 2004 standards, a copy of the completed *Notice* and of the acknowledgement sent by the Ministry must be attached.

Important Reminder: If an owner of property wishes to take advantage of Section 21.1, the completed *Notice* must be sent to the Ministry between July 1, 2010 and December 31, 2010.

The regulation O. Reg. 153/04 (Records of Site Condition - Part XV.1 of the Act), made under the Environmental Protection Act, is available at www.e-laws.gov.on.ca.

Additional information is also available on the Brownfields Ontario website: www.ontario.ca/brownfields.

NOTE: This information note contains general information only and should not be relied on as advice of any kind. Readers are advised to review the regulation and obtain legal advice.

<p style="text-align: center; font-size: 24px; font-weight: bold;">7 3 6 3 4 0</p> <p style="text-align: center; font-size: 18px; font-weight: bold;">CERTIFICATE OF RECEIPT HALTON (20) MILTON</p> <p style="text-align: center; font-size: 24px; font-weight: bold;">'98 MAY 21 PM 1 11</p> <p style="text-align: center; font-size: 18px; font-weight: bold;">New Property Identifier <i>James</i></p> <p style="text-align: center; font-size: 14px;">LAND REGISTRATION Additional: See Schedule <input type="checkbox"/></p> <p style="text-align: center; font-size: 14px;">Executions Additional: See Schedule <input type="checkbox"/></p>	<p>(1) Registry <input type="checkbox"/> Land Titles <input checked="" type="checkbox"/> (2) Page 1 of 4 pages</p>
	<p>(3) Property Identifier(s) Block 24927 Property 0085(LT) Additional: See Schedule <input type="checkbox"/></p>
	<p>(4) Consideration ONE HUNDRED AND FORTY-ONE THOUSAND 00/100 Dollars \$141,000.00</p>
	<p>(5) Description This is a: Property Division <input type="checkbox"/> Property Consolidation <input type="checkbox"/> Town City of Oakville, Regional Municipality of Halton. As described in Instrument No. TW29654. SAVE AND EXCEPT Part 1, Plan 20R-187 and Expropriation Plan 856. Being the whole of the PIN.</p>

(6) This Document Contains	(a) Redescription New Easement Plan/Sketch <input type="checkbox"/>	(b) Schedule for: Description <input type="checkbox"/> Additional Parties <input type="checkbox"/> Other <input checked="" type="checkbox"/>	(7) Interest/Estate Transferred Fee Simple
----------------------------	---------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------

(8) Transferor(s) The transferor hereby transfers the land to the transferee and certifies that the transferor is at least eighteen years old and that

Name(s) CONFEDERATION LIFE INSURANCE COMPANY, by its Liquidator, KPMG INC.	Signature(s) By: <i>Kerryn Downey</i> Name: Kerryn Downey Title: A.S.O.	Date of Signature Y M D 1998 5 19
I have authority to bind the Corporation		

(9) Spouse(s) of Transferor(s) I hereby consent to this transaction

Name(s)	Signature(s)	Date of Signature Y M D
---------	--------------	----------------------------

(10) Transferor(s) Address for Service 500 - 4101 Yonge Street, Toronto, Ontario, M2P 1N6

(11) Transferee(s)

SHELL CANADA PRODUCTS LIMITED	Date of Birth Y M D
-------------------------------	------------------------

(12) Transferee(s) Address for Service 700 - 45 Vogell Road, Richmond Hill, Ontario, L4B 3Y6
Attn: Real Estate and Development Manager

(13) Transferor(s) The transferor verifies that to the best of the transferor's knowledge and belief, this transfer does not contravene section 50 of the Planning Act.

Signature <i>Kerryn Downey</i> Date of Signature Y M D 1998 5 19	Signature <i>Joe Pasquariello</i> Date of Signature Y M D 1998 05 19
------------------------------------------------------------------	----------------------------------------------------------------------

Solicitor for Transferor(s) I have explained the effect of section 50 of the Planning Act to the transferor and I have made inquiries of the transferor to determine that this transfer does not contravene that section. I am an Ontario solicitor in good standing.

Name and Address of Solicitor Joseph Pasquariello, Goodman, Phillips & Vineberg, Suite 2400, 250 Yonge Street, Toronto, Ont. M5B 2M6

(14) Solicitor for Transferee(s) I have investigated the transferor(s) title to this land and to abutting land where relevant and I am satisfied that the title records reveal no contravention as set out in subclause 50 (22) (c) (ii) of the Planning Act and that to the best of my knowledge and belief this transfer does not contravene section 50 of the Planning Act. I act independently of the solicitor for the transferor(s) and I am an Ontario solicitor in good standing.

PIN: 24927 0085 (LT) Con't. on Schedule <input type="checkbox"/>	Name of Transferee(s): SHELL CANADA PRODUCTS LIMITED Con't. on Schedule <input type="checkbox"/>	Name and Address of Solicitor G.M.R. Beelen, Law Dept. 45 Vogell Rd., Suite 700 Richmond Hill, L4B 3Y6 Date of Signature Y M D 1998 05 21 Signature <i>B. Beelen</i>
------------------------------------------------------------------	--------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

(15) Assessment Roll Number of Property

City	Mun.	Map	Sub.	Par.	
24	01	010	050	03700	

(16) Municipal Address of Property 3005 Dundas Street West Oakville, Ontario x:\styleus\docs\980777F.ded	(17) Document Prepared by: wpeac/98-0777 Joseph Pasquariello GOODMAN PHILLIPS & VINEBERG Suite 2400 250 Yonge Street Toronto, Ontario, Canada M5B 2M6	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Fees and Tax</th> </tr> <tr> <td style="width:70%;">Registration Fee</td> <td style="width:30%;"></td> </tr> <tr> <td>Land Transfer Tax</td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td> </td> <td></td> </tr> <tr> <td>Total</td> <td></td> </tr> </table>	Fees and Tax		Registration Fee		Land Transfer Tax						Total	
Fees and Tax														
Registration Fee														
Land Transfer Tax														
Total														

Additional Property Identifier(s) and/or Other Information

The covenants deemed to be included in this Transfer/Deed of Land under Section 5(1) of the *Land Registration Reform Act* are hereby excluded.

x:\styleus\docs\980777.sch

FOR OFFICE
USE ONLY

SCHEDULE

Winding-Up Order of **CONFEDERATION LIFE INSURANCE COMPANY** of the Honourable Mr. Justice Houlden dated the 15th day of August, 1994 was registered the 19th day of October, 1994 as Instrument No. 590214.

Court Order of the Honourable Mr. Justice Houlden appointing **THE SUPERINTENDENT OF FINANCIAL INSTITUTIONS** as the Provisional Liquidator of **CONFEDERATION LIFE INSURANCE COMPANY** dated August 15, 1994 was registered the 19th day of October, 1994 as Instrument No. 590214.

Court Order appointing **KPMG INC.** as the Liquidator of **CONFEDERATION LIFE INSURANCE COMPANY** of the Honourable Mr. Justice Houlden dated the 10th day of September, 1997 and registered the 28th day of November, 1997 as Instrument No. 712142.

Each of the aforesaid court orders is still in full force and effect and has not been stayed.

G22\KATZP\1232480.1
File No.: 98-0777
3005 Dundas Street West, Oakville, Ontario

**Affidavit of Residence and of Value of the Consideration
Form 1 - Land Transfer Tax Act**

Refer to all instructions on reverse side.

IN THE MATTER OF THE CONVEYANCE OF (insert brief description of land) Part of Lot 31, Concession 1, North of Dundas Street, City of Oakville, Regional Municipality of Halton, save and except Part 1, Plan 20R-187 and Expropriation Plan 856.

BY (print names of all transferors in full) CONFEDERATION LIFE INSURANCE COMPANY, BY ITS LIQUIDATOR KPMG INC.

TO (see instruction 1 and print names of all transferees in full) SHELL CANADA PRODUCTS LIMITED

I, (see instruction 2 and print name(s) in full) GERRY MICHAEL RICHARD BEELEN

MAKE OATH AND SAY THAT:

1. I am (place a clear mark within the square opposite that one of the following paragraphs that describes the capacity of the deponent(s)): (see instruction 2)
- (a) A person in trust for whom the land conveyed in the above-described conveyance is being conveyed;
 - (b) A trustee named in the above-described conveyance to whom the land is being conveyed;
 - (c) A transferee named in the above-described conveyance;
 - (d) The authorized agent or solicitor acting in this transaction for (insert name(s) of principal(s)) SHELL CANADA PRODUCTS LIMITED
described in paragraph(s) (d), (d), (c) above; (strike out references to inapplicable paragraphs)
 - (e) The President, Vice-President, Manager, Secretary, Director, or Treasurer authorized to act for (insert name(s) of corporation(s)) _____
described in paragraph(s) (a), (b), (c) above; (strike out references to inapplicable paragraphs)
 - (f) A transferee described in paragraph () (insert only one of paragraph (a), (b) or (c) above, as applicable) and am making this affidavit on my own behalf and on behalf of (insert name of spouse) _____ who is my spouse described in paragraph () (insert only one of paragraph (a), (b) or (c) above, as applicable) and as such, I have personal knowledge of the facts herein deposed to.

2. (To be completed where the value of the consideration for the conveyance exceeds \$400,000).
- I have read and considered the definition of "single family residence" set out in clause 1(1)(ja) of the Act. The land conveyed in the above-described conveyance
- contains at least one and not more than two single family residences.
 - does not contain a single family residence.
 - contains more than two single family residences. (see instruction 3)
- Note:** Clause 2(1)(d) imposes an additional tax at the rate of one-half of one per cent upon the value of consideration in excess of \$400,000 where the conveyance contains at least one and not more than two single family residences.

3. I have read and considered the definitions of "non-resident corporation" and "non-resident person" set out respectively in clauses 1(1)(f) and (g) of the Act and each of the following persons to whom or in trust for whom the land is being conveyed in the above-described conveyance is a "non-resident corporation" or a "non-resident person" as set out in the Act. (see instructions 4 and 5) SHELL CANADA PRODUCTS LIMITED

4. THE TOTAL CONSIDERATION FOR THIS TRANSACTION IS ALLOCATED AS FOLLOWS:

(a) Monies paid or to be paid in cash	\$	<u>141,000.00</u>	
(b) Mortgages (i) Assumed (show principal and interest to be credited against purchase price)	\$	<u>Nil</u>	
(ii) Given back to vendor	\$	<u>Nil</u>	
(c) Property transferred in exchange (detail below)	\$	<u>Nil</u>	
(d) Securities transferred to the value of (detail below)	\$	<u>Nil</u>	
(e) Liens, legacies, annuities and maintenance charges to which transfer is subject	\$	<u>Nil</u>	
(f) Other valuable consideration subject to land transfer tax (detail below)	\$	<u>Nil</u>	
(g) VALUE OF LAND, BUILDING, FIXTURES AND GOODWILL SUBJECT TO LAND TRANSFER TAX (Total of (a) to (f))	\$	<u>141,000.00</u>	\$ <u>141,000.00</u>
(h) VALUE OF ALL CHATTELS - Items of tangible personal property (Retail Sales Tax is payable on the value of all chattels unless exempt under the provisions of the "Retail Sales Tax Act", R.S.O. 1980, c.454, as amended)	\$	<u>Nil</u>	
(i) Other consideration for transaction not included in (g) or (h) above	\$	<u>Nil</u>	
(j) TOTAL CONSIDERATION	\$	<u>141,000.00</u>	

All Blanks
Must Be
Filled In.
Insert "Nil"
Where
Applicable

5. If consideration is nominal, describe relationship between transferor and transferee and state purpose of conveyance. (see instruction 6) Not applicable
6. If the consideration is nominal, is the land subject to any encumbrance? Not applicable
7. Other remarks and explanations, if necessary. None

Sworn before me at the Town of Richmond Hill
in the Regional Municipality of York
this 20th day of May 19 98

MONICA DEORSIE MCLEAN, Notary Public,
Regional Municipality of York, limited to the
attestation of instruments and the taking of
affidavits, for Shell Canada Products Limited,
its subsidiaries, associates and affiliates.
Expires November 6, 1998.

A Commissioner for taking Affidavits, etc.

Property Information Record

- A. Describe nature of Instrument: Transfer/Deed of Gift
- B. (I) Address of property being conveyed (if available) 3005 Dundas Street West Oakville, Ontario
- (II) Assessment Roll No. (if available) _____
- C. Mailing address(es) for future Notices of Assessment under the Assessment Act for property being conveyed (see instruction 7) P.O. Box 100, Station M, Calgary, Alberta, T2P 2H5, Att: Property Tax Clerk
- D. (I) Registration number for last conveyance of property being conveyed (if available) TW29654
- (II) Legal description of property conveyed: Same as in D.(I) above. Yes No Not known
- E. Name(s) and address(es) of each transferee's solicitor
G.M.R. Beelen, Shell Canada Products Limited, Law Department, 45 Vogell Road, Suite 700, Richmond Hill, Ontario, L4B 3Y6

For Land Registry Office Use Only	
Registration No.	
Registration Date	Land Registry Office No.

School Tax Support (Voluntary Election) See reverse for explanation

- (a) Are all individual transferees Roman Catholic? Yes No
- (b) If Yes, do all individual transferees wish to be Roman Catholic Separate School Supporters? Yes No
- (c) Do all individual transferees have French Language Education Rights? Yes No
- (d) If Yes, do all individual transferees wish to support the French Language School Board (where established)? Yes No

NOTE: As to (c) and (d) the land being transferred will be assigned to the French Public School Board or Sector unless otherwise directed in (a) and (b). 0449D (90-08)



Ontario

ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND
REGISTRY
OFFICE #20

24927-0085 (LT)

PAGE 1 OF 2
PREPARED FOR DIANE
ON 2010/08/03 AT 15

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

PROPERTY DESCRIPTION: PT LT 31, CON 1 TRAFALGAR, NORTH OF DUNDAS STREET , AS IN TW29654, EXCEPT PT 1, 20R187 & PM855 ; OAKVILLE/TRAFALGAR

PROPERTY REMARKS:

ESTATE/QUALIFIER:

FEE SIMPLE
LT CONVERSION QUALIFIED

RECENTLY:

FIRST CONVERSION FROM BOOK

PIN CREATION DATE:

1996/03/25

OWNERS' NAMES

SHELL CANADA LIMITED

CAPACITY SHARE

BENO

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO
EFFECTIVE 2000/07/29 THE NOTATION OF THE "BLOCK IMPLEMENTATION DATE" OF 1996/03/25 ON THIS PIN					
WAS REPLACED WITH THE "PIN CREATION DATE" OF 1996/03/25					
** PRINTOUT INCLUDES ALL DOCUMENT TYPES AND DELETED INSTRUMENTS SINCE: 1996/03/22 **					
**SUBJECT, ON FIRST REGISTRATION UNDER THE LAND TITLES ACT, TO:					
** SUBSECTION 44(1) OF THE LAND TITLES ACT, EXCEPT PARAGRAPH 11, PARAGRAPH 14, PROVINCIAL SUCCESSION DUTIES *					
** AND ESCHEATS OR FORFEITURE TO THE CROWN.					
** THE RIGHTS OF ANY PERSON WHO WOULD, BUT FOR THE LAND TITLES ACT, BE ENTITLED TO THE LAND OR ANY PART OF					
** IT THROUGH LENGTH OF ADVERSE POSSESSION, PRESCRIPTION, MISDESCRIPTION OR BOUNDARIES SETTLED BY					
** CONVENTION.					
** ANY LEASE TO WHICH THE SUBSECTION 70(2) OF THE REGISTRY ACT APPLIES.					
**DATE OF CONVERSION TO LAND TITLES: 1996/03/25 **					
TW29654	1954/04/30	TRANSFER		*** COMPLETELY DELETED ***	CONFEDERATION LIFE ASSOCIATION
224701	1967/06/05	LEASE		*** COMPLETELY DELETED ***	
493575	1978/12/05	AGREEMENT			THE CORPORATION OF THE TOWN OF OAKVILLE
H736339	1998/05/21	APL CH NAME OWNER		*** COMPLETELY DELETED *** CONFEDERATION LIFE ASSOCIATION	CONFEDERATION LIFE INSURANCE COMPANY
H736340	1998/05/21	TRANSFER	\$141,000	CONFEDERATION LIFE INSURANCE COMPANY	SHELL CANADA PRODUCTS LIMITED
REMARKS: PLANNING ACT STATEMENTS					
H756963	1998/09/25	NOTICE		SHELL CANADA PRODUCTS LIMITED	

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



Ontario

ServiceOntario

PARCEL REGISTER (ABBREVIATED) FOR PROPERTY IDENTIFIER

LAND
REGISTRY
OFFICE #20

24927-0085 (LT)

PAGE 2 OF 2
PREPARED FOR DIA
ON 2010/08/03 AT

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

REG. NUM.	DATE	INSTRUMENT TYPE	AMOUNT	PARTIES FROM	PARTIES TO
REMARKS: ENVIRONMENTAL PROTECTION ACT					
H766969	1996/11/30	APL CH NAME OWNER		THE HESPER OIL COMPANY LIMITED CANADIAN OIL COMPANIES LIMITED	CANADIAN OIL COMPANY LIMITED
H766970	1998/11/30	NO DET/SURR LEASE		*** COMPLETELY DELETED ***	CANADIAN OIL COMPANY LIMITED
REMARKS: RE: 224701					
HR797328	2009/11/04	APL CH NAME OWNER		SHELL CANADA PRODUCTS LIMITED	SHELL CANADA LIMITED

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

**SURVEYOR'S REAL PROPERTY REPORT
PART 1) PLAN OF
PART OF LOT 31, CONCESSION 1
NORTH OF DUNDAS STREET
(GEOGRAPHIC TOWNSHIP OF TRAFALGAR)
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON**

SEXTON MCKAY LIMITED
ONTARIO LAND SURVEYORS
CANADA LANDS SURVEYOR

Scale 1:200



PART 2) Report Summary	
DESCRIPTION OF LAND:	BEING PART OF LOT 31, CONCESSION 1, NORTH OF DUNDAS STREET (GEOGRAPHIC TOWNSHIP OF TRAFALGAR) NOW IN THE TOWN OF OAKVILLE, MUNICIPAL No. 3005 DUNDAS STREET PIN 24927-0085(LT) AS IN INST. NO. TW29854, EXCEPT PART 1, PLAN 20R-187 AND PM856.
REGISTERED EASEMENTS and/or RIGHTS-OF-WAY:	NONE
ENCROACHMENTS:	NONE
COMPLIANCE WITH MUNICIPAL ZONING BY-LAWS:	NOT CERTIFIED BY THIS REPORT
ADDITIONAL REMARKS:	NONE

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

LEGEND

- DENOTES SURVEY MONUMENT FOUND
- DENOTES SURVEY MONUMENT SET
- SB DENOTES STANDARD IRON BAR
- IB DENOTES IRON BAR
- SSB DENOTES SHORT STANDARD IRON BAR
- CC DENOTES CUT CROSS
- # DENOTES ROUND
- WIT DENOTES WITNESS
- RP DENOTES REGISTERED PLAN 1491
- P2 DENOTES SURVEY PLAN BY C.A. SEXTON, OLS DATED MAY 10th, 1974
- P3 DENOTES PLAN 20R-11003
- P4 DENOTES PLAN 20R-18700
- P5 DENOTES DEPOSITED PLAN 834
- P6 DENOTES DEPOSITED PLAN 856
- D1 DENOTES INSTRUMENT No. 67448
- MTO DENOTES MINISTRY OF TRANSPORTATION ONTARIO
- CM DENOTES CONCRETE MONUMENT
- MH DENOTES MANHOLE
- CB DENOTES CATCH BASIN
- B DENOTES BOLLARD
- LS DENOTES LIGHT STANDARD
- MW DENOTES MONITORING WELL
- WV DENOTES WATER VALVE
- HP DENOTES HYDRO POLE
- DW DENOTES DOWN WIRE
- TLS DENOTES TRAFFIC LIGHT SIGNAL
- TS DENOTES TRAFFIC SIGN
- HW DENOTES HAND WELL
- OH DENOTES OVERHEAD HYDRO
- OH2 DENOTES OVERHEAD HYDRO
- GS DENOTES GASMAIN
- WT DENOTES WATERMAIN
- SS DENOTES SANITARY SEWER
- ST DENOTES STORM SEWER
- UB DENOTES UNDERGROUND BELL LINES
- ON DENOTES SURVEY PLAN BY SEXTON MCKAY, O.L.S., DATED APRIL 5th, 2007

NOTE

BEARINGS SHOWN HEREON ARE ASTROMERIC AND ARE REFERRED TO THE SOUTHWESTERLY LIMIT OF PART 1, AS SHOWN ON REGISTERED PLAN 1491, (MTO FILE P-2074-67) HAVING A BEARING OF $N49^{\circ}53'00''W$.

TEMPORARY BENCH MARK

TOP OF CONCRETE PORCH IN FRONT OF HOUSE No. 3015 DUNDAS STREET AND SHOWN ON FACE OF PLAN
ELEVATION = 154.72

THIS REPORT WAS PREPARED FOR SHELL CANADA LIMITED AND THE UNDERSIGNED ACCEPTS NO RESPONSIBILITY FOR USE BY OTHER PARTIES.

SURVEYOR'S CERTIFICATE

- I CERTIFY THAT
- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
 - THE SURVEY WAS COMPLETED ON THE 12TH DAY OF AUGUST 2010,

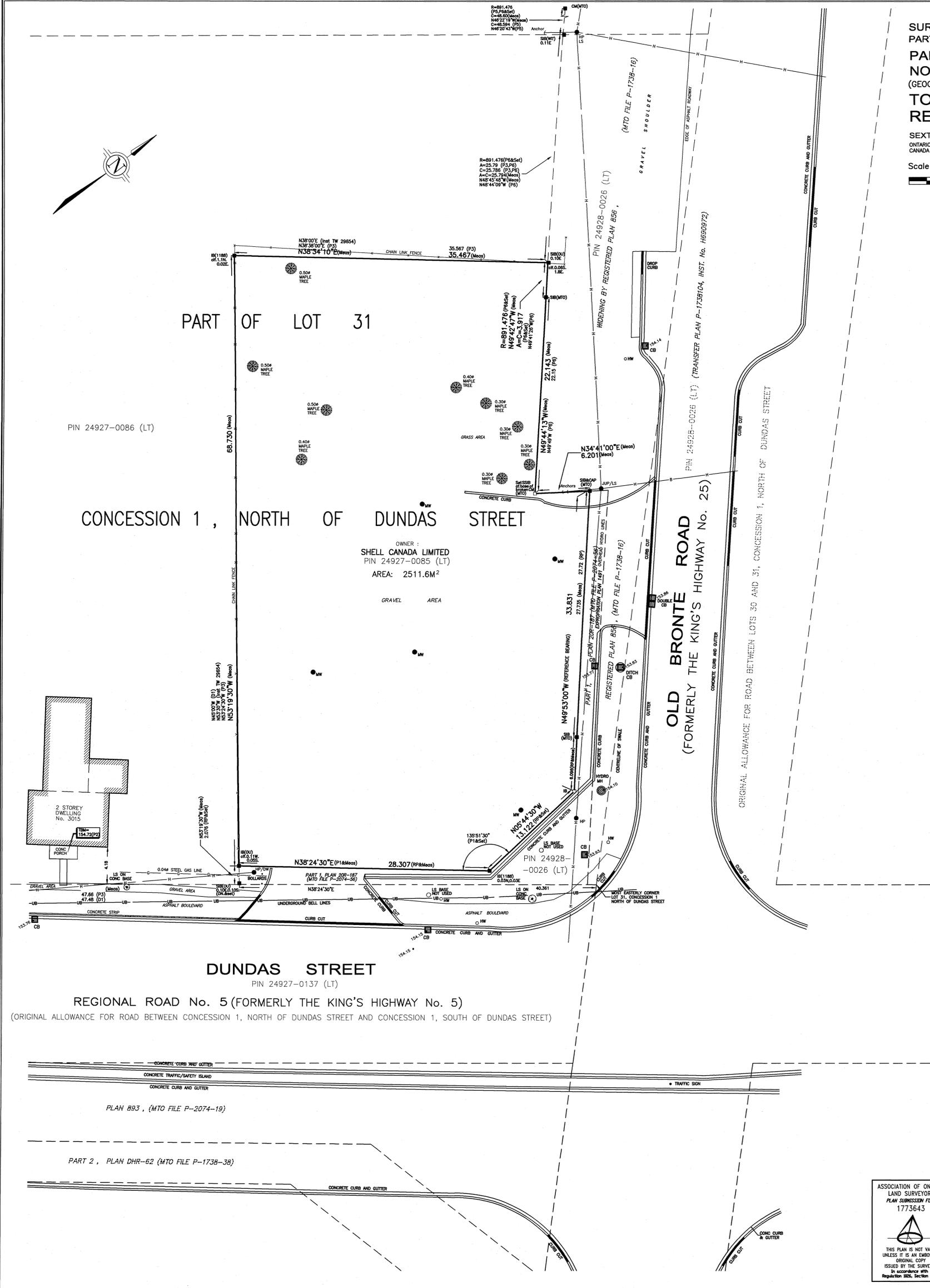
August 12 2010
DATE
C.A. SEXTON
ONTARIO LAND SURVEYOR

CAUTION
LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE. OTHER BURIED UTILITIES MAY EXIST WHICH ARE NOT SHOWN BECAUSE OF INSUFFICIENT INFORMATION. CONTACT ALL POTENTIAL OWNERS OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
1773643

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1825, SECTION 29(2)

SHELL CANADA PRODUCTS		
DRAWN BY: JD/ml	JOB No. 20384-1	
CHECKED BY: C.A. SEXTON, OLS		
SEXTON MCKAY LIMITED - ONTARIO LAND SURVEYORS - CANADA LANDS SURVEYOR 70 EAST BEAVER CREEK ROAD, UNIT 44 & 45, RICHMOND HILL, ONTARIO L4B 3B2 Tel: (905) 889-9103 Fax: (905) 889-8941		



PART OF LOT 31

CONCESSION 1, NORTH OF DUNDAS STREET

OWNER:
SHELL CANADA LIMITED
PIN 24927-0085 (LT)
AREA: 2511.6M²

OLD BRONTE ROAD
(FORMERLY THE KING'S HIGHWAY No. 25)

DUNDAS STREET
PIN 24927-0137 (LT)

REGIONAL ROAD No. 5 (FORMERLY THE KING'S HIGHWAY No. 5)

(ORIGINAL ALLOWANCE FOR ROAD BETWEEN CONCESSION 1, NORTH OF DUNDAS STREET AND CONCESSION 1, SOUTH OF DUNDAS STREET)

PLAN 893, (MTO FILE P-2074-19)

PART 2, PLAN DHR-62 (MTO FILE P-1738-38)

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
1773643

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1825, SECTION 29(2)

SHELL CANADA PRODUCTS		
DRAWN BY: JD/ml	JOB No. 20384-1	
CHECKED BY: C.A. SEXTON, OLS		
SEXTON MCKAY LIMITED - ONTARIO LAND SURVEYORS - CANADA LANDS SURVEYOR 70 EAST BEAVER CREEK ROAD, UNIT 44 & 45, RICHMOND HILL, ONTARIO L4B 3B2 Tel: (905) 889-9103 Fax: (905) 889-8941		

APPENDIX B

SAMPLING AND ANALYSIS PLAN

SHELL PRODUCTS CANADA

**3005 DUNDAS STREET WEST, OAKVILLE,
ONTARIO**

**SAMPLING AND ANALYSIS PLAN
REMEDIAL GROUNDWATER PROGRAM**

REF.: S09125

**August 2010
(as amended)**

**Prepared by:
SNC-Lavalin Environment
Toronto, Ontario**



**SNC•LAVALIN
Environment**

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APPENDIX

Appendix A:	Sodium Persulfate Field Sampling Procedure
-------------	--------------------------------------------

1. INTRODUCTION

SNC-Lavalin Environment (SLE), Division of SNC-Lavalin Inc., was retained by Shell Canada Products (Shell) to conduct a pre-remedial assessment, a groundwater remedial program, a post-remedial groundwater assessment and to prepare a Phase II Environmental Assessment (ESA) report for the former Shell retail fuel outlet located at 3005 Dundas Street West, Oakville, Ontario. This Sampling and Analysis Plan (SAP) was developed in consultation with Shell, SLE Field Work Guidance Manual (SLE, 2010) and the Ministry of the Environment (MOE) Guide for Completing Phase Two Environmental Site Assessment Under Ontario Regulation 153/04, dated June 2011 (MOE, 2011). The SAP includes field soil and groundwater sampling plan and quality assurance and quality control (QA/QC) program.

1.1 Project Description

This Sampling and Analysis Plan (SAP) describes requirements for the assessment and remedial work at the following site:

Project Location: Former Shell retail fuel outlet
3005 Dundas Street West, Oakville, ON

Project Title: Remedial Groundwater Program

Consultant: SNC-Lavalin Environment (SLE)

SLE Reference: S09125

Qualified Person: Meghan Fitz-James, P.Eng., Senior Project Manager

Effective Date of Plan: August 2010 (as amended)

1.2 Project Objectives

The objectives of this work program are to:

- Assess the current soil and groundwater conditions within the vicinity of MW-401 and MW-402 (post soil remediation), to verify the results from previous investigations, and establish that the soil conditions are unlikely to contribute to potential groundwater impact prior to the implementation of the Insitu Chemical Oxidation (ISCO) program;
- Investigate contaminants of potential concern identified in the Phase I ESA (SLE, 2010) in the backfill material and underlying native soils in the vicinity of MW-401 and MW-402: on-site APEC (benzene and MTBE) and off-site APEC (BTEX, PHC F1 to F4 and MTBE);
- Supervise the ISCO program; and,
- Assess the post-remedial groundwater conditions to satisfy the requirements for filing of a record of site condition (RSC).

The SAP was developed to meet the following criteria:

- To consider the findings identified during the Phase I ESA to potentially contaminating activities;
- To consider all contaminants of potential concern or appropriate subsets (i.e. degradation products or by-products) of such contaminants;
- To consider any other information and matters relating to the environmental condition of the property which would support an informed professional judgment; and,
- To determine sampling and analysis for all contaminants of potential concern, or appropriate subsets of such contaminants, and any other relevant contaminants.

1.3 Background

The former Shell retail fuel outlet (Outlet No. C05875) is located at 3005 Dundas Street West in Oakville, Ontario (referred to as the Phase II Property), as shown on Figure 1. The Phase II Property measures approximately 0.6 acres (0.2 ha) and is located on the northwest corner of Old Bronte Road and Dundas Street West (Figure 1). The retail fuel facility operations began in the mid 1960's and terminated in 2007. The site infrastructure was decommissioned in 2007 and a soil remediation program was completed in 2008-2009. The former service station building was also removed at the time of the site remediation program; the site is currently vacant.

Site infrastructure at the time of decommissioning included: five (5) 22,700 L single wall fibreglass underground storage tanks (USTs), used for the storage of gasoline, located on the southwest corner of the site, a concrete apron, kiosk, dispensers, associated piping and vents. In addition, the former service station building was also demolished at this time, including the removal of a former fuel oil UST, a concrete septic tank and associated tile bed. A former waste oil UST was previously removed from the site. The locations of historical and current site infrastructure are provided in Figure 2.

A Phase I Environmental Site Assessment (ESA) was conducted by SLE in 2010 (SLE, 2010). Site visits were completed by SLE personnel on August 19, 2010. Findings of the Phase I ESA identified the following areas of potential environmental concern:

- The only potentially contaminating activity identified within the Phase I ESA Study Area was the historical on-site presence of the former retail fuel outlet and automotive service station. The associated potential contaminants of concern at the site were petroleum hydrocarbons [benzene, toluene, ethylbenzene and total xylenes (BTEX), petroleum hydrocarbon fractions (F1 to F4 PHC), polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs) and metals.

As described in the Phase I ESA, several soil and/or groundwater investigations were completed at the site between 1992 and 2007. A review of the reports summarising these previous investigations indicated that the actual contaminants of concern on-site (soil and groundwater) were BTEX, PHC F1 to F4 and MTBE. No other contaminants of concern were identified.

As a result of the soil remediation program completed at the site in 2008-2009 by Wardrop Engineering Inc., all soils with petroleum hydrocarbon concentrations exceeding the applicable MOE (2004) Table 2 standards for BTEX, PHC F1 to F4 and MTBE were identified and remediated through excavation from the southern portion of the site. The final remedial excavation extended off-site to the east and south, leaving residual soil impacts along the final (off-site) excavation walls. Post-remedial groundwater sampling programs completed at the site by Aqua Terre (2009) and SLE in 2009 and 2010 indicated residual groundwater concentrations exceeding the MOE (2004) Table 2 standards for benzene and/or MTBE in two on-site wells (MW-401 and MW-402).

The locations of previously completed remedial excavation, boreholes and monitoring wells are shown on Figure 2.

Although the on-site soils were remediated for the contaminants of concern, the Phase I ESA identified two Areas of Potential Environmental Concern (APEC) for the site, as listed below:

APEC and Rationale	Potential Contaminants of Concern (PCOC)	Comments/ Uncertainties
APEC #1 (on-site) Location of former retail fuel outlet and automotive service garage – residual (localized) groundwater impacts identified in southern portion of the property.	<ul style="list-style-type: none"> • Benzene and MTBE – Groundwater 	Results based on available records, reports and historical information
APEC #2 (off-site) Dundas Street West and Old Bronte Road allowances south and east of the site – residual soil and groundwater impacts	<ul style="list-style-type: none"> • BTEX, PHC F1 to F4 – Soil and/or Groundwater • MTBE – Groundwater 	

1.4 Conceptual Site Model

The Phase I Conceptual Site Model (CSM) is shown in Figure 3. A summary of the CSM is provided below:

- The topography of the site is generally flat. Post-remediation investigation indicated potential groundwater mounding related to the presence of granular fill material within the remedial excavation. Based on the groundwater monitoring and elevation data from

the right-of-way property to the southeast of the site, groundwater flow is expected to be towards south and east of the site (SLE, 2010);

- There were no water bodies or areas of natural significance located within the Phase I Study Area. The nearest water body is a tributary of Fourteen Mile Creek, located approximately 7.5 km south of the site. Regional groundwater flow is expected towards the south-southeast;
- No utilities that could potentially serve as a preferential migration pathway were identified at the site;
- Based on the information from the Municipality of Oakville and MOE well records, groundwater is believed to be used as a potable water supply within 250 m of the boundaries of the site;
- Potentially Contaminating Activity (On-site): Historical use of the site as a retail fuel outlet and automotive service garage may have impacted soil and groundwater conditions at the site. Based on previous investigations, soil and/or groundwater impacts above the applicable MOE standards were identified in the southern portion of the site. These soils were remediated through excavation in 2008-2009; and,
- The potential contaminants of concern on the site, post soil remediation, are benzene and MTBE (both in the groundwater); however, the SAP will look at BTEX, PHC F1 to F4 and MTBE as potential contaminants of concern both in soil and groundwater.

2. SAMPLING AND ANALYSIS PLAN (SAP)

The SAP includes identification of, and rationale and procedures for the following:

- Choice of sampling system, such as a judgmental, discrete or composite sampling (soil);
- Sampled media;
- Number of samples;
- Sampling frequency;
- Sampling points;
- Sampling depth intervals, including the screened intervals of the monitoring wells;
- Other field information to be obtained, including water levels, field measurements and elevation surveying; and,
- Samples to be submitted for laboratory analysis and selection of analytical parameters.

To assure the level of data quality, the SAP includes the following elements:

- QA/QC program;
- Data quality objectives;
- Standard operating procedures; and,
- Any physical impediments that interfere with or limit the ability to conduct sampling and analysis.

2.1 Proposed Work Plan

The proposed work plan for the assessment and remediation activities includes:

- Collection of public utility locates;
- Supervising pre-remedial on-site borehole drilling and monitoring well installation in the vicinity of MW-401 and MW-402 (proposed borehole/monitoring well locations are shown on Figure 2);
- Soil sampling and analysis for BTEX, PHC F1 to F4 and MTBE;
- Monitoring well development and purging;
- Implementation of groundwater monitoring and sampling program to assess the groundwater conditions pre- and post-injection of chemical oxidant (sodium persulphate);
- Collection of field measurements for pH, temperature and conductivity, as well as sodium persulphate (within the area of injection);
- Groundwater sampling and analysis for: BTEX, PHC F1 to F4 and MTBE;

- Evaluation and reporting of laboratory analytical results to monitor ISCO effectiveness post injection; and,
- Disposal of investigation wastes.

2.2 Field Soil and Groundwater Sampling Plan

The CSM was used to develop the objectives of this work program and the SAP. The sampling objectives are outlined in Table 1. The identification, rationale and procedures are listed as follows:

- Sampling system: judgemental sampling method based on the consideration of identified contaminants of concern, and potential off-site presence of BTEX, PHC F1 to F4 and MTBE;
- Samped media: subsurface soil and groundwater. No sediment sampling was a part of this investigation as there are no water bodies on the site;
- Samped parameters: provided in Table 2;
- Sampling frequency for Soil: one (1) time soil sampling during the investigation;
- Sampling frequency for groundwater: one (1) pre-injection sampling event and two (2) post-injection, bi-weekly sampling events (field parameters only), followed by quarterly groundwater sampling events, separated by greater than 90 days and conducted greater than 90 days after completion of injections and bi-weekly sampling;
- Sampling points: A total of four (4) boreholes (BH501 to BH504), with groundwater monitoring wells, were proposed to cover potential area of concern. Proposed drilling locations are shown on Figure 2;
- Sampling depth intervals: up to approximately 4.0 m below grade for overburden fill material and underlying native soils. Soil sampling depth interval is approximately 0.6 m. Monitoring wells will be installed so the screened portion intersects the water table and well screens will not exceed 3.1 m in length;
- Groundwater elevation survey: horizontal locations and vertical elevations of newly-installed monitoring wells and existing monitoring wells will be surveyed;
- Approximate number of samples (soil and groundwater) are provided below, along with the analytical parameters:
 - Drilling: A minimum of two (2) soil samples from each borehole were selected, based on OVM readings and field observations for laboratory analysis of BTEX, PCH F1 to F4 and MTBE; and,
 - Groundwater sampling: Quarterly sampling of all on-site wells for BTEX, PHC F1 to F4 and MTBE, as well as additional sampling as indicated below.

-
- As part of the groundwater monitoring and sampling program, water quality measurements of pH, temperature and conductivity will be taken from each monitoring well to be sampled using a YSI-556 MPS (Multi-Probe System); and,
 - For monitoring wells within the ISCO injection zone, field measured concentrations of sodium persulfate will be taken using a Sodium Persulfate CHEMets® Kit, based on the procedure outlined in Appendix A.

3. METHODOLOGY

3.1 Standard Operating Procedures

Field investigations will be carried out in accordance with O.Reg. 153/04 (as amended), the MOE Guide for Completing Phase Two Environmental Site Assessment Under Ontario Regulation 153/04, dated June 2011 (MOE, 2011) and standard operating procedures (SOPs) described in the SLE Field Work Guidance Manual (SLE, 2010).

3.2 Variations from Standard Operating Procedures.

Where deviation from SOPs may be necessary due to field conditions or circumstances, these will be documented in final reports, as appropriate.

No significant variations from the SOPs are expected. Field conditions may be different from expectations such that minor modifications may be required to the SOPs. The SLE project manager will be notified to confirm that modifications will not affect the quality of the investigation.

4. QUALITY ASSURANCE / QUALITY CONTROL (QA/QC) PROGRAM

4.1 Data Quality Objectives

The data collected during this project are to be of sufficient quality and certainty to achieve the following data quality objectives (DQO):

- Overall project objectives are met; and,
- Conclusions and actions from this work are sound and defensible.

If these DQO are not met, the origin and cause of deviations must be determined. Additional sampling and analysis may then be required to achieve DQOs.

4.2 QA/QC Program

The use of SOPs and the QA/QC program are intended to achieve the DQOs. The QA/QC program will limit errors and bias in sampling and analysis through implementation of assessment and control measures that will ensure data are accurate, precise and reproducible for the purpose of determining whether concentrations of contaminants of concern meet applicable regulatory site condition standards (SCSs).

4.2.1 Field QA/QC Measures

Samples will be collected in such a manner as to minimize potential cross contamination, including the use of disposable nitrile gloves for each sample recovered. Non-dedicated sampling equipment will be decontaminated between successive samples. Sample documentation will include sample designation, sample labelling, field notes, and chain-of-custody forms. Samples will be placed in laboratory supplied jars with laboratory supplied preservatives, as appropriate, and stored in coolers with ice until delivery to an analytical laboratory.

The minimum requirements for field QA samples include:

QA/QC Sample Type	Media	Analysis	Frequency
Field duplicate	Soil and groundwater	Same analysis as “parent” sample (including BTEX, F1-F4 PHC, and MTBE)	One (1) for every ten (10) submitted soil or groundwater samples
Trip blank	Groundwater	BTEX, F1-F4 PHC, and MTBE	One (1) per submission
Field blank	Groundwater	BTEX, F1-F4 PHC, and MTBE	One (1) per submission

4.2.2 Laboratory QA/QC Measures

Soil and groundwater samples for chemical laboratory analysis will be submitted to Maxxam Analytics Inc. (Maxxam) of Mississauga, Ontario. Maxxam is accredited by the Standards Council of Canada (SCC) and follows analytical protocols outlined in O. Reg. 153/04 (as amended). Maxxam implements a QA/QC program that includes preparation and analysis of proper control samples. Results of laboratory QA/QC samples are reviewed and compared to accepted limits for precision, accuracy and completeness (US EPA, 2006).

4.3 Data Review and Validation

Data generated for this project will be reviewed and verified by the SLE project manager to ensure that data conforms to and satisfies project objectives and DQOs. Data verification will include ensuring that calibration of field instruments was satisfactory and field blank and field duplicate met acceptable criteria. The data verification and reporting process for the laboratory data involves ensuring that the holding times, precision, accuracy, laboratory blanks, and detection limits are within the acceptance criteria outlined in the SAP. If significant variances are identified, the SAP and final report will be reviewed to determine if the overall project objectives are met and/or additional investigation may be required. Corrective actions will be initiated if required.

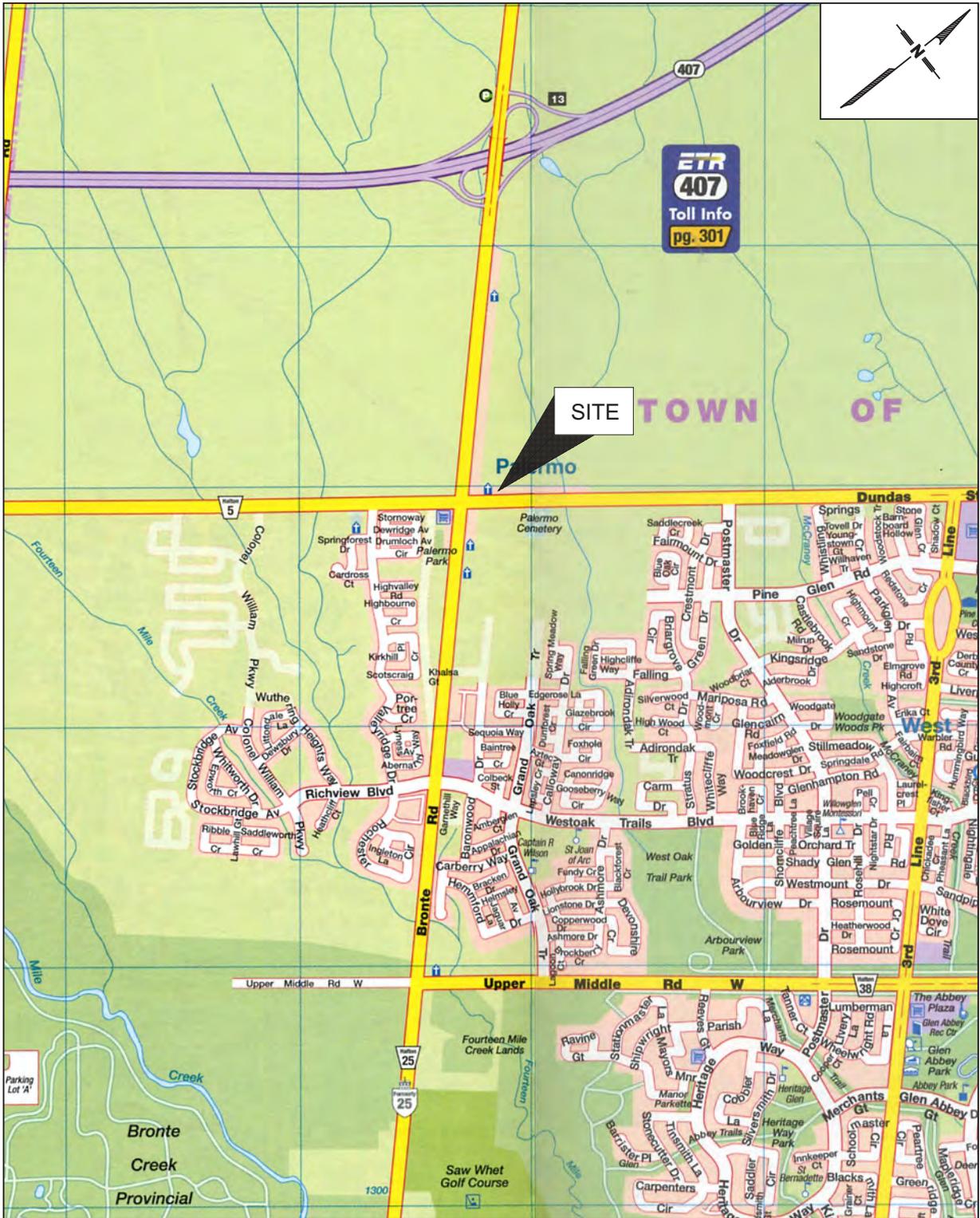
5. REFERENCES

Ontario Ministry of the Environment (MOE), 2011. Guide for Completing Phase Two Environmental Site Assessment Under Ontario Regulation 153/04. June 2011.

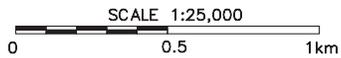
SNC-Lavalin Environmental (SLE), 2010. Field Work Guidance Manual, January 2010.

SNC-Lavalin Environment (SLE), 2010. Phase I Environmental Site Assessment, 3005 Dundas Street West, Oakville, Ontario, report dated December 2010.

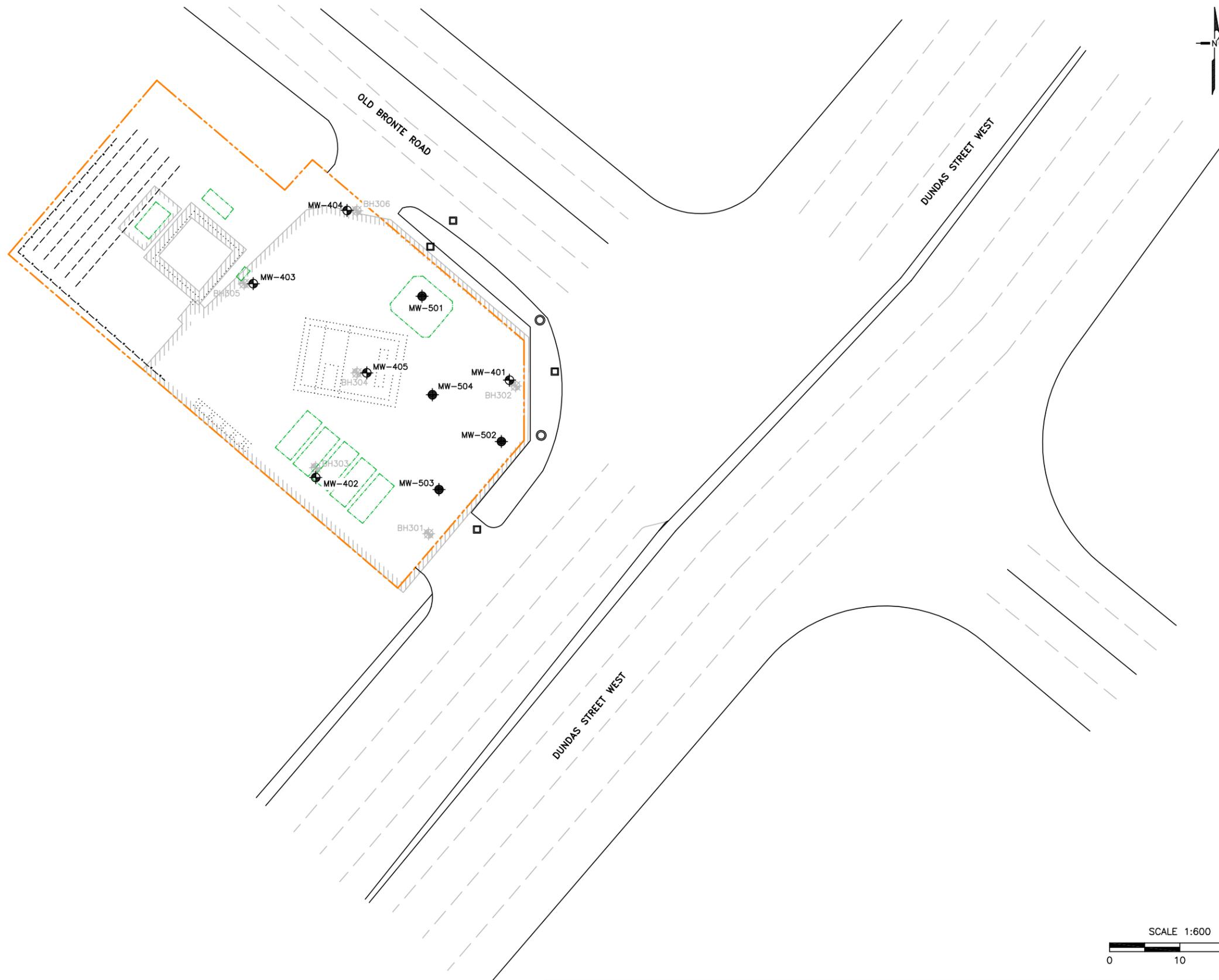
FIGURES



SOURCE: SCHWERDT GRAPHIC ARTS LTD., (MapArt), 2007 EDITION

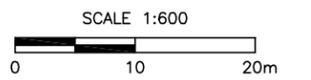


 SNC-LAVALIN Environment	Client/Location:		SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title:		SITE LOCATION PLAN	
	Project No:	S09125	Filename:	20F01_S09125	Date:	NOVEMBER 2012	Dwg No:	FIGURE 1
	Drawn:	DM	Verified:		Project Manager:			



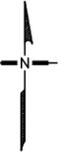
LEGEND	
	PROPOSED BOREHOLE WITH MONITORING WELL
	EXISTING MONITORING WELL
	DECOMMISSIONED MONITORING WELL
	MANHOLE
	CATCH BASIN
	SITE PROPERTY LINE
	PREVIOUSLY EXCAVATED AREA
	INFRASTRUCTURE
	FORMER INFRASTRUCTURE
	CHAIN LINK FENCE
	FORMER TANK

NOTE(S):
 1. SCALE, SITE INFRASTRUCTURE AND SAMPLE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES
 4. SITE MONITORED JUNE 2012

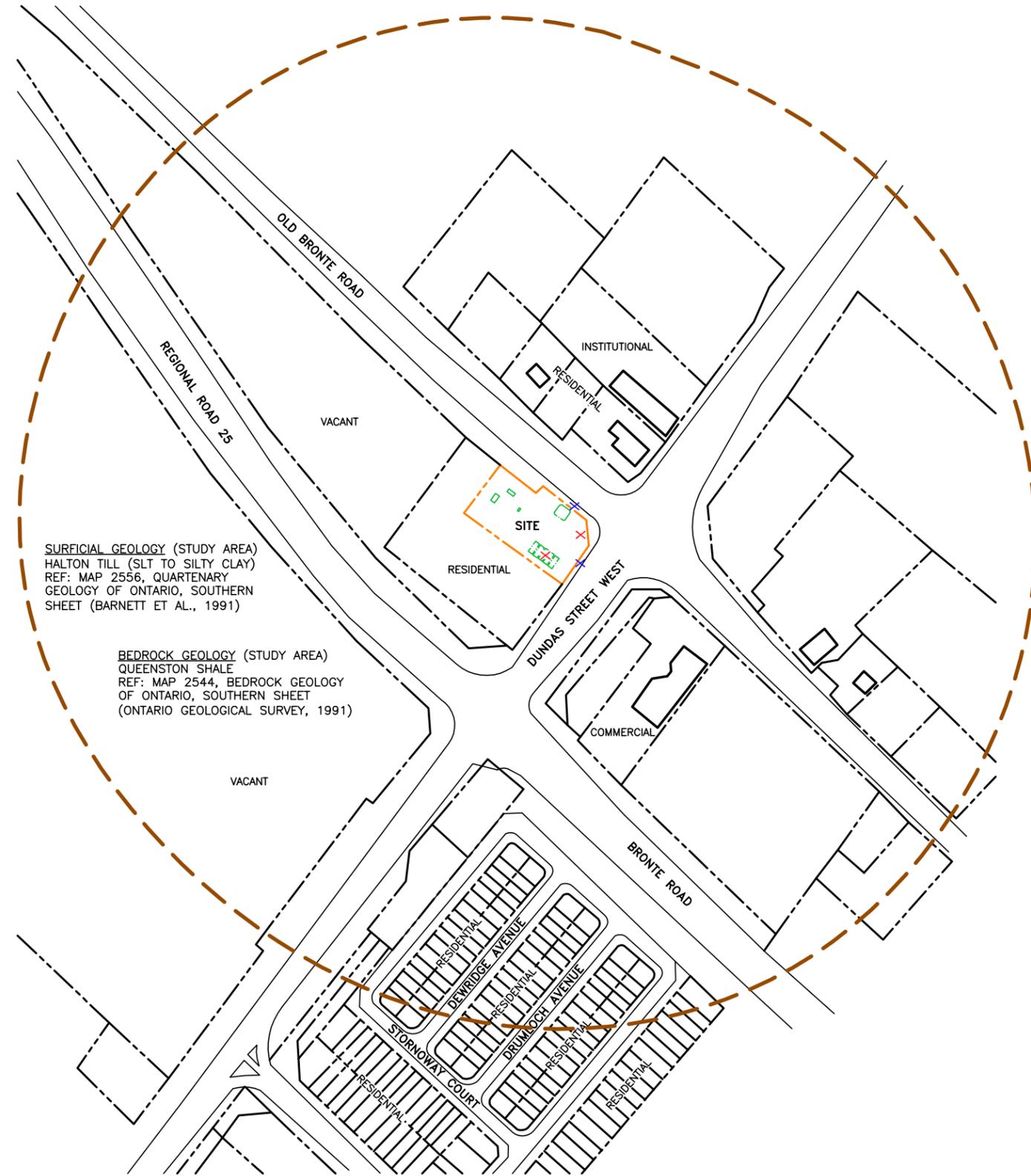


	Client/Location: SHELL 3005 DUNDAS STREET WEST OAKVILLE, ON		Title: SAMPLING LOCATION PLAN	
	Project No: S09125	Filename: 22F02_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 2
	Drawn: DM	Verified:	Project Manager:	

FILENAME: P:\2009\091xx\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\022\22F02_S09125.dwg



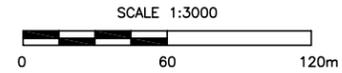
ON PHASE I STUDY PROPERTY ARE THERE?		
EXISTING STRUCTURES/BUILDINGS	NO	DEMOLISHED
DRINKING WATER WELLS	NO	DECOMMISSIONED
IN PHASE I STUDY AREA ARE THERE?		
ROADS	YES	SEE FIGURE
WATER BODIES	NO	
AREA OF NATURAL SIGNIFICANCE	NO	
POTENTIAL CONTAMINATING ACTIVITIES	YES	DECOMMISSIONED GASOLINE RETAIL/AUTOMOTIVE SERVICE FACILITY
TANKS	NO	ONSITE REMOVED, SEE FIGURE FOR FORMER LOCATIONS
AREAS OF POTENTIAL ENVIRONMENTAL CONCERN	YES	<p>ON-SITE: CONCENTRATIONS OF MTBE/BENZENE (GROUNDWATER) ABOVE MOE TABLE 2 STANDARD IN SOUTH PORTION OF SITE</p> <p>OFF-SITE: RESIDUAL SOIL AND GROUNDWATER IMPACTS ALONG THE EAST AND SOUTH PROPERTY LINES (BTEX, PHC F1 to F4, MTBE)</p>



LEGEND	
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN (ON-SITE)
	AREA OF POTENTIAL ENVIRONMENTAL CONCERN (OFF-SITE)
	PROPERTY LINE
	SITE PROPERTY LINE
	PHASE I STUDY AREA (250m)
	FORMER UNDERGROUND TANK

NOTE(S):
 1. SCALE AND SITE INFRASTRUCTURE LOCATIONS ARE APPROXIMATE
 2. INFORMATION ON THIS FIGURE MAY BE LOST IF IT IS PRINTED, PHOTOCOPIED OR FAXED IN OTHER THAN ITS ORIGINAL SIZE AND COLOURS
 3. "m" : METRES

SOURCE(S):
 1. ZONING BYLAW, TOWN OF OAKVILLE, 2010



	Client/Location: SHELL 3005 DUNDAS STREET WEST, OAKVILLE, ON		Title: CONCEPTUAL SITE MODEL SHOWING AREAS OF POTENTIAL ENVIRONMENTAL CONCERN	
	Project No: S09125	Filename: 22F03_S09125	Date: NOVEMBER 2012	Dwg No: FIGURE 3
	Drawn: AG	Verified:	Project Manager:	

FILENAME: F:\2009\091xx\09125 - Shell - 3005 Dundas St., W., Oakville\Figures\Series\2012\022\22F03_S09125.dwg

TABLES

Table 1: Sampling Objectives
3005 Dundas Street West, Oakville, ON

Media	Objectives	Sampling Targets
Soil	<ul style="list-style-type: none"> Obtain information about current soil conditions (backfill and native) in the vicinity of MW-401 and MW-402 Establish that the soil conditions in the vicinity of MW-401 and MW-402 are unlikely to contribute to potential groundwater impact prior to the implementation of the Insitu Chemical Oxidation (ISCO) program 	Shallow fill material and underlying native soils
Shallow Groundwater	<ul style="list-style-type: none"> Assess concentration of identified and potential contaminants of concern in groundwater pre- and post-injection of chemical oxidant Determine groundwater flow direction 	Groundwater in overburden

Table 2: Sampling Parameters
3005 Dundas Street West, Oakville, ON

Identified Contaminants of Concern	<ul style="list-style-type: none"> Benzene and MTBE (groundwater)
Potential Contaminants of Concern	<ul style="list-style-type: none"> BTEX, PHC F1 to F4 and MTBE (soil) Toluene, Ethylbenzene, Xylenes, and PHC F1 to F4 (groundwater)
Other	<ul style="list-style-type: none"> Grain size not required as medium to fine textured soil type previously determined to establish generic criterion for the site. Waste classification (to assess disposal requirements for soil cuttings) not required as previous results from sampling by SLE in 2010 remains applicable

Notes:

Investigation depth – to depth of former infrastructure (at a minimum), estimate max 4 m – 4.5 m; investigate to native material.

APPENDIX A

SODIUM PERSULFATE FIELD SAMPLING PROCEDURE

Sodium Persulfate CHEMets® Kit

K-7870/R-7870: 0 - 7 & 7 - 70 ppm

Safety Information

Read MSDS before performing this test procedure. Wear safety glasses and disposable gloves.

Test Procedure

1. Fill the sample cup to the 25 mL mark with the sample to be tested (fig 1).
2. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a small bubble for mixing (fig 2).
3. To mix the ampoule, invert it several times, causing the bubble to travel from end to end. Dry the ampoule and wait **1.5 minutes** for color development.
4. Obtain a test result using the appropriate comparator
 - a. **Low Range Comparator (fig 3):** Place the ampoule, flat end first into the comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until the best color match is found.
 - b. **High Range Comparator (fig 4):** Place the ampoule between the color standards until the best color match is found.

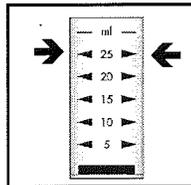


Figure 1

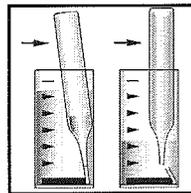


Figure 2



Figure 3

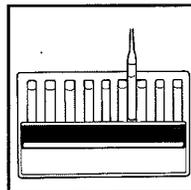


Figure 4

Test Method

The Sodium Persulfate CHEMets®¹ test method employs the ferric thiocyanate chemistry.² In an acidic solution, sodium persulfate oxidizes ferrous iron. The resulting ferric iron reacts with ammonium thiocyanate to form ferric thiocyanate, a red-orange colored complex, in direct proportion to the sodium persulfate concentration.

Various oxidizing agents such as hydrogen peroxide, ozone, ferric ions and cupric ions will produce high test results. Sample pHs above 8 may cause low test results.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. D. F. Boltz and J. A. Howell, eds., Colorimetric Determination of Nonmetals, 2nd ed., Vol. 8, p. 304 (1978)



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June 11, Rev. 4



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Telephone: 416-635-5882
FAX: 416-635-5353

APPENDIX C

MOE WATER WELL RECORDS

TOWNSHIP CONCESSION (LOT)	UTM ¹	DATE ² CNTR ³	CASING DIA ⁴	WATER ^{5,6} DETAIL	STAT LVL/PUMP LVL ⁷ RATE ⁸ /TIME HR:MIN	WATER USE ⁹	SCREEN INFO ¹⁰	WELL # (AUDIT#) WELL TAG # DEPTHS TO WHICH FORMATIONS EXTEND ^{5,11}
OAKVILLE TOWN DS N 01(030)	17 599037 4810023 ^W	1981/05 4602	06	FR 0046	012 / 042 006 / 1:0	DO		2805737 () BRWN CLAY 0010 GREY CLAY 0017 RED SHLE 0048
OAKVILLE TOWN DS N 01(030)	17 599006 4809961 ^W	1985/11 4005	06	UK 0039 FR 0048	006 / 050 004 / 1:0	DO		2806373 () BRWN CLAY SNDY GRVL 0020 RED SHLE HARD 0051
OAKVILLE TOWN DS N 01(030)	17 598821 4810168 ^W	1953/10 1429	06 06	FR 0023 FR 0040	004 / 040 002 / 1:0	DO		2802158 () CLAY 0005 SHLE 0040
OAKVILLE TOWN DS N 01(030)	17 598877 4810122 ^W	1954/10 1642	06 06	FR 0048	020 / 003 / :0	DO		2802159 () CLAY 0019 RED SHLE 0050
OAKVILLE TOWN DS N 01(030)	17 599001 4809991 ^W	1955/09 1642	06 06	FR 0042	010 / 040 008 / :0	DO		2802160 () CLAY 0016 RED SHLE 0044
OAKVILLE TOWN DS N 01(030)	17 598908 4810090 ^W	1955/09 1642	06 06	FR 0050	015 / 048 001 / :0	DO		2802161 () CLAY 0013 RED SHLE 0055
OAKVILLE TOWN DS N 01(030)	17 598793 4810220 ^W	1958/05 1642	06 06	FR 0028	015 / 025 003 / 0:15	DO		2802164 () CLAY 0016 RED SHLE 0030
OAKVILLE TOWN DS N 01(030)	17 599115 4810093 ^W	1960/07 4602	06 06	FR 0034	010 / 036 002 / 1:0	DO		2802165 () BRWN CLAY 0016 RED SHLE 0036
OAKVILLE TOWN DS N 01(030)	17 598811 4810173 ^W	1961/10 4001	06 06	FR 0038	011 / 037 003 / 2:0	DO		2802166 () GREY CLAY 0008 RED SHLE 0040
OAKVILLE TOWN DS N 01(030)	17 599117 4810293 ^W	1963/11 4602	06	FR 0034	008 / 036 006 / 1:0	ST DO		2802168 () PRDG 0014 RED SHLE 0036
OAKVILLE TOWN DS N 01(030)	17 598725 4810289 ^W	1963/12 4001	06 06	FR 0040	020 / 045 001 / 2:0	DO		2802169 () BLUE CLAY 0014 RED SHLE 0045
OAKVILLE TOWN DS N 01(030)	17 598946 4810058 ^W	1966/03 4602	06 06	FR 0044	006 / 046 006 / 1:0	DO		2802171 () GREY CLAY 0016 RED SHLE 0046
OAKVILLE TOWN DS N 01(030)	17 598730 4810289 ^W	1967/11 4001	06 06	FR 0032	010 / 040 002 / 3:0	DO		2802172 () BRWN CLAY 0005 RED CLAY 0020 RED SHLE 0045
OAKVILLE TOWN DS N 01(030)	17 598998 4810034 ^W	1951/06 1642	06 06	FR 0044	012 / 001 / :0	DO		2802156 () CLAY 0017 RED SHLE 0046
OAKVILLE TOWN DS N 01(030)	17 598768 4810227 ^W	1953/10 1429	06 06	FR 0024 FR 0080	008 / 080 001 / 1:0	DO		2802157 () CLAY 0005 SHLE 0081
OAKVILLE TOWN DS N 01(030)	17 598765 4810273 ^W	1954/07 1642	06 06	FR 0033	007 / 010 003 / 1:0	DO		2802235 () CLAY 0014 RED SHLE 0035
OAKVILLE TOWN DS N 01(030)	17 599102 4810148 ^W	1992/10 4005	06		/ / :30			2808052 (118164)

TOWNSHIP CONCESSION (LOT)	UTM ¹	DATE ² CNTR ³	CASING DIA ⁴	WATER ^{5,6} DETAIL	STAT LVL/PUMP LVL ⁷ RATE ⁸ /TIME HR:MIN	WATER USE ⁹	SCREEN INFO ¹⁰	WELL # (AUDIT#) WELL TAG # DEPTHS TO WHICH FORMATIONS EXTEND ^{5,11}
OAKVILLE TOWN DS N 01(030)	17 599160 4810201 ^W	1989/09 4005	06	UK 0050	008 / 052 003 / 1:0	DO		2807384 (55635) RED SHLE HARD 0054
OAKVILLE TOWN DS N 01(030)	17 598920 4810058 ^W	1986/01 4005	06	FR 0044 FR 0050	009 / 030 024 / 1:0	DO		2806416 () BRWN CLAY SNDY LOOS 0012 RED CLAY LOOS 0020 RED SHLE HARD 0054
OAKVILLE TOWN DS N 01(030)	17 598924 4810044 ^W	1985/09 4005	06	FR 0032 UK 0052	011 / 040 010 / 1:0	DO		2806344 () BRWN CLAY LOOS 0005 BRWN CLAY SAND GRVL 0018 RED CLAY LOOS 0023 RED SHLE HARD 0053
OAKVILLE TOWN DS N 01(031)	17 598975 4809956 ^W	1953/10 1429	06 06	FR 0048 FR 0024	011 / 016 006 / 2:30	CO		2802174 () CLAY 0009 SHLE 0051
OAKVILLE TOWN DS N 01(031)	17 598981 4809878 ^W	1959/05 5417	06 06	FR 0032 FR 0048	012 / 040 011 / 0:45	DO		2802173 () BRWN LOAM 0001 BRWN CLAY 0016 RED CLAY SHLE 0020 RED SHLE 0050
OAKVILLE TOWN DS N 01(031)	17 598953 4809849 ^W	2009/06 2663						7129277 (Z100112)
OAKVILLE TOWN DS N 01(031)	17 599019 4809841 ^W	2009/01 2663				DO		7129278 (Z100111)
OAKVILLE TOWN DS N 01(031)	17 598995 4809963 ^W	1978/05 4005	06	FR 0028 FR 0037	009 / 035 005 / 1:0	CO		2805218 () BRWN CLAY SNDY LOOS 0015 BRWN CLAY GRVL SNDY 0020 RED SHLE HARD 0040
OAKVILLE TOWN DS N 01(031)	17 598995 4809923 ^W	1978/05 4005	06					2805217 () PRDR 0018 RED SHLE HARD 0050
OAKVILLE TOWN DS N 01(031)	17 599011 4809916 ^W	1976/03 2519	30	FR 0018	012 / 003 / 1:0	PS		2804851 () FILL 0003 BRWN CLAY 0014 RED SHLE CLAY 0020
OAKVILLE TOWN DS N 01(032)	17 598553 4809449 ^W	1984/01 4005	06	SU 0095	082 / 086 010 / 1:0	DO CO		2806106 () BRWN CLAY LOOS 0043 GREY SAND GRVL LOOS 0086 GREY SAND GRVL LOOS 0095
OAKVILLE TOWN DS S 01(030)	17 599166 4809851 ^W	1955/10 1642	06	FR 0038	010 / 018 020 / 0:30	CO DO		2802331 () PRDG 0016 PRDR 0033 SHLE 0039
OAKVILLE TOWN DS S 01(030)	17 599393 4809720 ^W	1954/02 1642	06					2802321 () CLAY 0017 RED SHLE 0065
OAKVILLE TOWN DS S 01(030)	17 599247 4809759 ^W	1993/07 1660	06 06	SA 0065	013 / 092 002 / 1:0	PS		2808262 () BRWN LOAM 0001 BRWN CLAY STNS 0017 RED CLAY 0020 RED SHLE 0095
OAKVILLE TOWN DS S 01(030)	17 599126 4809871 ^W	1955/09 1642	06 06	FR 0048	016 / 045 004 / 2:0	IN		2802330 () CLAY 0016 RED SHLE 0053
OAKVILLE TOWN DS S 01(030)	17 599095 4809983 ^W	1972/03 1663	05 05	FR 0033	005 / 040 003 / 6:0	DO		2803929 () LOAM 0004 RED CLAY 0013 RED SHLE CLAY 0040 RED CLAY SHLE 0043
OAKVILLE TOWN DS S 01(030)	17 599405 4809705 ^W	1954/02 1642	06	SA 0065	012 / / :0	NU		2802322 () CLAY 0016 RED SHLE 0065

TOWNSHIP CONCESSION (LOT)	UTM ¹	DATE ² CNTR ³	CASING DIA ⁴	WATER ^{5,6} DETAIL	STAT LVL/PUMP LVL ⁷ RATE ⁸ /TIME HR:MIN	WATER USE ⁹	SCREEN INFO ¹⁰	WELL # (AUDIT#) WELL TAG # DEPTHS TO WHICH FORMATIONS EXTEND ^{5,11}
OAKVILLE TOWN DS S 01(030)	17 599376 4809692 ^N	1954/03 1642	06	SA 0060	010 / / :0	NU		2802323 () CLAY 0015 RED SHLE 0060
OAKVILLE TOWN DS S 01(030)	17 599424 4809825 ^N	1954/03 1642	06	SA 0065	015 / 001 / :0	NU		2802324 () CLAY 0015 RED SHLE 0065
OAKVILLE TOWN DS S 01(030)	17 599410 4809705 ^N	1954/04 1642	06 06	FR 0017	007 / 001 / :0	PS		2802325 () CLAY 0017 RED SHLE 0048
OAKVILLE TOWN DS S 01(030)	17 599412 4809603 ^N	1954/09 1642	06		020 / / :0	NU		2802327 () CLAY 0015 SHLE 0028
OAKVILLE TOWN DS S 01(030)	17 599072 4809932 ^N	1955/03 2909	06 06	FR 0025	009 / 012 014 / 11:0	CO		2802329 () FILL 0005 BRWN CLAY STNS 0017 RED SHLE 0064
OAKVILLE TOWN DS S 01(030)	17 599315 4809801 ^N	1971/07 5417	06	FR 0021 FR 0041	009 / 031 002 / 1:0	PS		2803613 () GREY CLAY 0015 RED SHLE 0043
OAKVILLE TOWN DS S 01(030)	17 599240 4809772 ^N	1955/11 1642	06 06	FR 0043	016 / 026 004 / 0:15	DO		2802332 () PRDG 0020 RED SHLE 0046
OAKVILLE TOWN DS S 01(030)	17 599411 4809640 ^N	1966/09 2309	06 06	FR 0028 FR 0044	018 / 042 002 / 1:0	DO		2802337 () BRWN CLAY 0014 RED SHLE 0045
OAKVILLE TOWN DS S 01(031)	17 599016 4809840 ^N	4552						2807864 (104455)
OAKVILLE TOWN DS S 01(031)	17 599018 4809842 ^N	1991/09 4552	06	FR 0035	020 / 020 006 / 2:0	CO		2807863 (104462) WHIT FILL LOOS 0003 BLGY CLAY DNSE 0018 RED SHLE LMSN HARD 0036
OAKVILLE TOWN DS S 01(031)	17 599132 4809754 ^N	1990/03 1660	06 06	SA 0068	011 / 066 003 / 1:30	DO		2807805 (43826) BRWN LOAM 0001 BRWN CLAY 0023 RED SHLE 0073
OAKVILLE TOWN DS S 01(031)	17 599055 4809863 ^N	1978/05 4005		FR 0025 FR 0035 FR 0032	006 / 033 003 / 1:0	CO		2805219 () BRWN CLAY LOOS 0018 RED SHLE HARD 0038
OAKVILLE TOWN DS S 01(031)	17 598880 4809701 ^N	2004/03 4868				DO		2809880 (Z03984)
OAKVILLE TOWN DS S 01(031)	17 599214 4809735 ^N	1974/10 4602						2804639 () BRWN CLAY 0010 RED CLAY 0017 RED SHLE 0075
OAKVILLE TOWN DS S 01(031)	17 598995 4809843 ^N	1972/05 1663	05 05	FR 0034	007 / 010 020 / 4:0	DO		2803928 () RED CLAY 0015 RED SHLE 0034
OAKVILLE TOWN DS S 01(031)	17 599114 4809813 ^N	1960/07 4602	06	FR 0042	012 / 052 002 / 1:0	DO		2802346 () PRDR 0029 RED SHLE 0052
OAKVILLE TOWN DS S 01(031)	17 599429 4809483 ^N	1958/05 1642	06 06	FR 0046	015 / 045 001 / 1:0	PS		2802345 () CLAY 0019 RED SHLE 0050

TOWNSHIP CONCESSION (LOT)	UTM ¹	DATE ² CNTR ³	CASING DIA ⁴	WATER ^{5,6} DETAIL	STAT LVL/PUMP LVL ⁷ RATE ⁸ /TIME HR:MIN	WATER USE ⁹	SCREEN INFO ¹⁰	WELL # (AUDIT#) WELL TAG # DEPTHS TO WHICH FORMATIONS EXTEND ^{5,11}
OAKVILLE TOWN DS S 01(031)	17 599284 4809466 ^N	1958/05 1642	06	SA 0055	025 / 050 / 0:10	NU		2802343 () CLAY 0019 RED SHLE 0056
OAKVILLE TOWN DS S 01(031)	17 599170 4809769 ^N	1956/07 1642	06 06	FR 0027	012 / 026 002 / 0:15	DO		2802342 () CLAY 0020 RED SHLE 0029
OAKVILLE TOWN DS S 01(031)	17 598942 4809765 ^N	1955/06 1642	06 06	FR 0033	007 / 012 004 / 0:30	DO		2802341 () CLAY MSND 0008 CLAY GRVL 0021 RED SHLE 0037
OAKVILLE TOWN DS S 01(031)	17 598820 4809596 ^N	1953/10 1642	06	FR 0111	098 / 010 / :0	DO		2802339 () CLAY MSND STNS 0111
OAKVILLE TOWN DS S 01(031)	17 599159 4809786 ^N	1953/11 1429	06 06	SU 0040	004 / 040 002 / 1:0	DO		2802340 () CLAY 0006 SHLE 0040
OAKVILLE TOWN DS S 01(032)	17 598798 4809568 ^N	1964/08 1308	30					2802351 () BRWN CLAY MSND 0007 BRWN CLAY BLDR 0030 BLUE CLAY 0040
OAKVILLE TOWN 01(029)	17 549580 4809822 ^N	2008/01 6988	02				10 5	7102285 (M00229) A064021 BRWN LOAM 0000 BRWN TILL CLAY SILT 0010 RED SHLE 0016
OAKVILLE TOWN 01(030)	17 598845 4810126 ^N	2007/07 1660						7047696 (Z52756)
OAKVILLE TOWN 01(031)	17 599049 4809826 ^N	2006/10 3349				NU		2810673 (Z71807)
OAKVILLE TOWN 01(032)	17 599127 4809333 ^N	2005/04 7201		FR 0069			75 5	2810255 (Z28620) A022270 BRWN SILT CLAY FILL 0005 BRWN SILT CLAY TILL 0045 BRWN SAND SILT 0071 GREY SAND GRVL 0085
OAKVILLE TOWN 02(009)	17 599351 4810297 ^N	2009/06 1663	30		010 / / :0	NU		7124872 (Z94095)
OAKVILLE TOWN ()	17 598987 4809947 ^N	2008/04 6607	04	FR 0035				7107062 (M01748) A067329 BRWN SAND GRVL FILL 0004 BRWN SILT CLAY SAND 0014 RED SHLE WTHD 0020 RED SHLE LMSN 0037
OAKVILLE TOWN ()	17 598952 4809720 ^N	2008/09 6607	06	0011				7113789 (Z60598)
OAKVILLE TOWN ()	17 598979 4809944 ^N	2008/09 6607			007 / / :0			7113891 (M03919) A062514
OAKVILLE TOWN ()	17 598955 4809933 ^N	2009/02 1660						7139558 (Z89726)
OAKVILLE TOWN ()	17 598948 4809931 ^N	2008/09 6607			003 / / :0			7113897 (M03068) A054647

TOWNSHIP CONCESSION (LOT)	UTM ¹	DATE ² CNTR ³	CASING DIA ⁴	WATER ^{5,6} DETAIL	STAT LVL/PUMP LVL ⁷ RATE ⁸ /TIME HR:MIN	WATER USE ⁹	SCREEN INFO ¹⁰	WELL # (AUDIT#) WELL TAG # DEPTHS TO WHICH FORMATIONS EXTEND ^{5,11}
OAKVILLE TOWN ()	17 598972 4809935 ^N	2008/12 1660						7120486 (Z89724)
OAKVILLE TOWN ()	99 999999 9999999 ^N	2009/04 7241	20					7122832 (M03354) A085485 BRWN FILL 0008
OAKVILLE TOWN ()	17 598979 4809944 ^N	2008/01 6607	02	0001				7128691 (M01232) A062541 BRWN SAND GRVL 0002 BLCK CLAY SLTY 0005 BRWN CLAY SLTY 0012
OAKVILLE TOWN ()	17 598974 4809700 ^N	2009/09 6607	02		009 / / :0			7132472 (M05699) A088192
OAKVILLE TOWN ()	17 599083 4809902 ^N	2009/10 6607	02					7135552 (M06170) A092268 BRWN SILT CLAY DNSE 0011 RED SILT CLAY HARD 0015
OAKVILLE TOWN ()	17 598974 4809700 ^N	2009/09 6607	02					7136481 (M05698) A085485
OAKVILLE TOWN ()	17 598956 4809907 ^N	2008/04 6607	02	0008				7105546 (M01728) A067319 BRWN SILT SAND LOOS 0005 GREY SILT CLAY SOFT 0009 BRWN SILT CLAY STNS 0012 BRWN SILT CLAY SHLE 0017
OAKVILLE TOWN ()	17 598956 4809931 ^N	2008/04 6607	02	0004				7105545 (M01729) A054647 BRWN LOAM LOOS 0001 BRWN CLAY SILT GRVL 0006 BRWN CLAY SILT GRVL 0014
OAKVILLE TOWN ()	17 599210 4810259 ^N	2007/08 1660						7101500 (Z67951)
OAKVILLE TOWN ()	17 598971 4809649 ^N	2008/09 6607	02	UK 0019				7113894 (M03093) A078554 BRWN SILT GRVL DNSE 0013 RED SILT GRVL 0020

Notes:

1. UTM in Zone, Easting, Northing and Datum is NAD83; L: UTM estimated from Centroid of Lot; W: UTM not from Lot Centroid
2. Date Work Completed
3. Well Contractor Licence Number
4. Casing diameter in inches
5. Unit of Depth in Feet
6. See Table 4 for Meaning of Code

7. STAT LVL: Static Water Level in Feet ; PUMP LVL: Water Level After Pumping in Feet
8. Pump Test Rate in GPM, Pump Test Duration in Hour : Minutes
9. See Table 3 for Meaning of Code
10. Screen Depth and Length in feet
11. See Table 1 and 2 for Meaning of Code

1. Core Material and Descriptive terms										
Code	Description	...	Code	Description	...	Code	Description	...	Code	Description
BLDR	BOULDERS		FCRD	FRACTURED		IRFM	IRON FORMATION		PORS	POROUS
									SOFT	SOFT
BSLT	BASALT		FGRD	FINE-GRAINED		LIMY	LIMY		PRDG	PREVIOUSLY DUG
									SPST	SOAPSTONE
CGRD	COARSE-GRAINED		FGVL	FINE GRAVEL		LMSN	LIMESTONE		PRDR	PREV. DRILLED
									STKY	STICKY
CGVL	COARSE GRAVEL		FILL	FILL		LOAM	TOPSOIL		QRTZ	QUARTZITE
									STNS	STONES
CHRT	CHERT		FLDS	FELDSPAR		LOOS	LOOSE		QSND	QUICKSAND
									STNY	STONEY
CLAY	CLAY		FLNT	FLINT		LTCL	LIGHT-COLOURED		QTZ	QUARTZ
									THIK	THICK
CLN	CLEAN		FOSS	FOSILIFEROUS		LYRD	LAYERED		ROCK	ROCK
									THIN	THIN
CLYY	CLAYEY		FSND	FINE SAND		MARL	MARL		SAND	SAND
									TILL	TILL
CMTD	CEMENTED		GNIS	GNEISS		MGRD	MEDIUM-GRAINED		SHLE	SHALE
									UNKN	UNKNOWN TYPE
CONG	CONGLOMERATE		GRNT	GRANITE		MGVL	MEDIUM GRAVEL		SHLY	SHALY
									VERY	VERY
CRYS	CRYSTALLINE		GRSN	GREENSTONE		MRBL	MARBLE		SHRP	SHARP
									WBRG	WATER-BEARING
CSND	COARSE SAND		GRVL	GRAVEL		MSND	MEDIUM SAND		SHST	SCHIST
									WDFR	WOOD FRAGMENTS
DKCL	DARK-COLOURED		GRWK	GREYWACKE		MUCK	MUCK		SILT	SILT
									WTHD	WEATHERED
DLMT	DOLOMITE		GVLY	GRAVELLY		OBDN	OVERBURDEN		SLTE	SLATE
DNSE	DENSE		GYPS	GYP SUM		PCKD	PACKED		SLTY	SILTY
DRTY	DIRTY		HARD	HARD		PEAT	PEAT		SNDS	SANDSTONE
DRY	DRY		HPAN	HARDPAN		PGVL	PEA GRAVEL		SNDY	SANDY

2. Core Color	
Code	Description
WHIT	WHITE
GREY	GREY
BLUE	BLUE
GREN	GREEN
YLLW	YELLOW
BRWN	BROWN
RED	RED
BLCK	BLACK
BLGY	BLUE-GREY

3. Water Use			
Code	Description	Code	Description
DO	Domestic	OT	Other
ST	Livestock	TH	Test Hole
IR	Irrigation	DE	Dewatering
IN	Industrial	MO	Monitoring
CO	Commercial		
MN	Municipal		
PS	Public		
AC	Cooling And A/C		
NU	Not Used		

4. Water Detail			
Code	Description	Code	Description
FR	Fresh	GS	Gas
SA	Salty	IR	Iron
SU	Sulphur		
MN	Mineral		
UK	Unknown		

APPENDIX D

BOREHOLE/MONITORING WELL LOGS AND MOE WELL RECORD



Project No.: S09125

SLE Supervisor: L. Arnold

Drilling Company: Geo-Environmental

Client: Shell Canada Products

Drilling Method: Hollow Stem Auger

Drilling Equipment: CME-75

Location: 3005 Dundas St. W., Oakville

Borehole Diameter: 21 cm

Well Casing: Stick-up

Date Completed: August 19, 2010

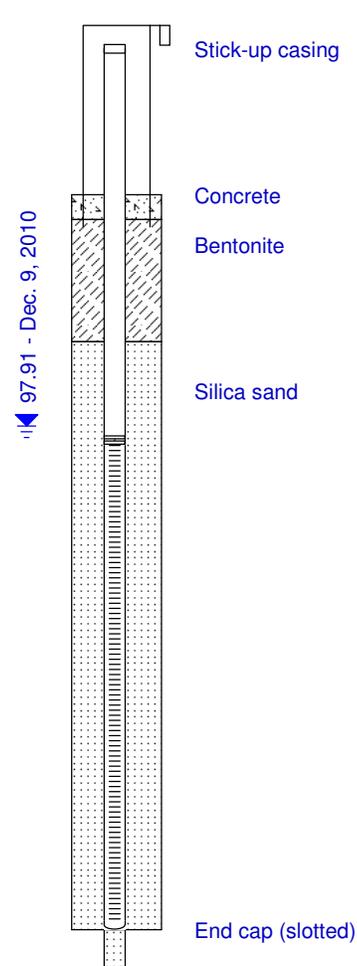
Monitoring Well Diameter: 5.1 cm

Well Screen: 5.1 cm PVC Size 10 Slot

Site Datum: Sanitary sewer MH cover in SE corner of site (assigned elev. 100.0 m)

OVM: Gastech 1238 ME

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
ft m								
-3								100.00
-2								
-1								
0							Ground Surface	99.34
1	6-9-6-6	BH-501-1		<25	46		SAND and GRAVEL FILL moist, brown, medium dense, medium	99.00
2								
3	2 for 24"	BH-501-2		-	0		No Sample	
4								98.00
5								
6	2-6-8-8	BH-501-3		<25	38		silty CLAY moist to wet, brown, trace sand, stiff	
7								
8	5-10-11-15	BH-501-4		<25	67		SILT moist, brown/grey, trace sand and gravel, very stiff	97.00
9								
10								
11	7-14-21-32	BH-501-5		<25	92		hard	96.00
12								
13	30-50 for 6"	BH-501-6A		25	50		wet	
14	30-50 for 6"	BH-501-6B		75	50		SHALE trace sand, hard	95.00
15								
16	19-50 for 5"	BH-501-7		225	91		sandy SILT wet, brown, hard	
17							End of borehole at 4.8 m bgs.	94.00
18								



(1) Blow count per 0.15 m using conventional hammer and split spoons
 (2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin Environment personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable



Project No.: S09125

SLE Supervisor: L. Arnold

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Date Completed: August 19, 2010

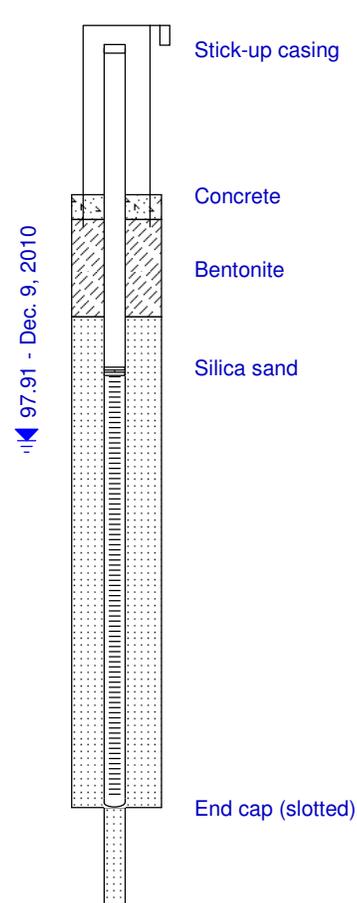
Monitoring Well Diameter: 5.1 cm

Well Screen: 5.1 cm PVC Size 10 Slot

Site Datum: Sanitary sewer MH cover in SE corner of site (assigned elev. 100.0 m)

OVM: Gastech 1238 ME

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
ft m								
-3								100.00
-2								
-1								
0							Ground Surface	99.45
1	8-9-7-7	BH-502-1		<25	42		SAND and GRAVEL FILL moist, brown, medium dense, medium	99.00
2								
3	1-1-1-1	BH-502-2		<25	25		sandy CLAY moist, brown, very soft	
4								
5								98.00
6	1-0-2-2	BH-502-3		<25	50		CLAY moist to wet, brown, trace sand, debris, very soft	
7								
8								
9	6-10-13-19	BH-502-4		<25	79		SILT moist, brown, trace sand and gravel, very stiff	97.00
10								
11	16-17-25-50 for 5'	BH-502-5		<25	96		hard	96.00
12								
13							SHALE hard	
14	16-24-25-27	BH-502-6		<25	46		sandy SILT moist, brown, trace gravel, hard	95.00
15							End of borehole at 4.4 m bgs.	
16								
17								
18								94.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
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Project No.: S09125

SLE Supervisor: L. Arnold

Drilling Company: Geo-Environmental

Client: Shell Canada Products

Drilling Method: Hollow Stem Auger

Drilling Equipment: CME-75

Location: 3005 Dundas St. W., Oakville

Borehole Diameter: 21 cm

Well Casing: Stick-up

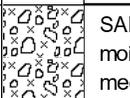
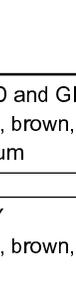
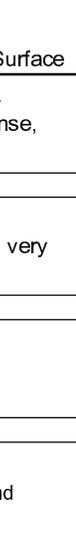
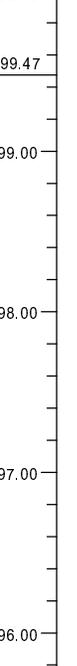
Date Completed: August 19, 2010

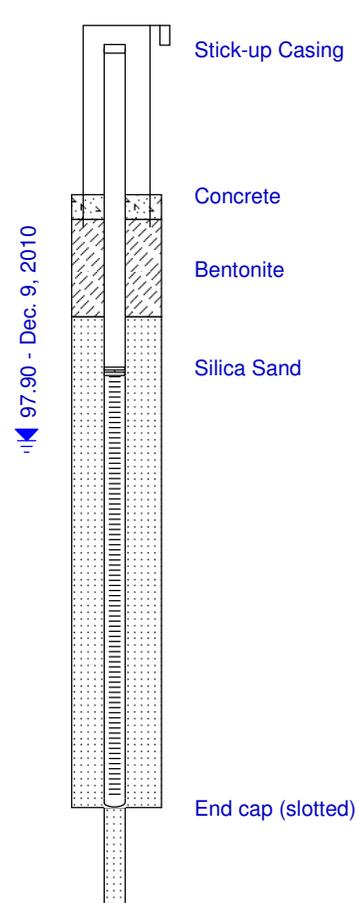
Monitoring Well Diameter: 5.1 cm

Well Screen: 5.1 cm PVC Size 10 Slot

Site Datum: Sanitary sewer MH cover in SE corner of site (assigned elev. 100.0 m)

OVN: Gastech 1238 ME

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVN (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
ft m								
-3								100.00
-2								
-1								
0							Ground Surface	99.47
1	10-13-10-6	BH-503-1	◆	<25	8		SAND and GRAVEL FILL moist, brown, medium dense, medium	99.00
2								
3	1-1-1-1	BH-503-2	◆	<25	25		CLAY moist, brown, some sand, very soft	
4								
5								98.00
6	3-6-7-9	BH-503-3		NA	0		No Sample	
7								
8	4-8-12-20	BH-503-4	◆	<25	83		SILT wet, brown, trace sand and gravel, very stiff	97.00
9								
10								
11	9-16-26-37	BH-503-5		25	100		hard	
12								
13	9-11-13-18	BH-503-6		<25	96		grey, very stiff	96.00
14								
15							End of borehole at 4.4 m bgs.	95.00
16								
17								
18								94.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
 (2) Organic Vapour Meter (OVN) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin Environment personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable



Project No.: S09125

SLE Supervisor: L. Arnold

Drilling Company: Geo-Environmental

Client: Shell Canada Products

Drilling Method: Hollow Stem Auger

Drilling Equipment: CME-75

Location: 3005 Dundas St. W., Oakville

Borehole Diameter: 21 cm

Well Casing: Stick-up

Date Completed: August 19, 2010

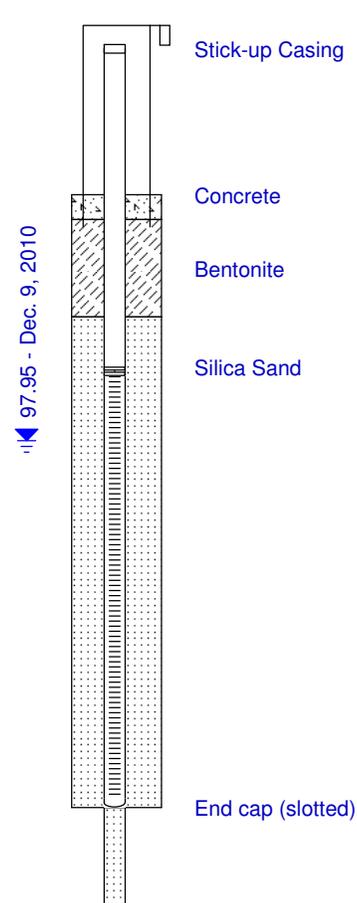
Monitoring Well Diameter: 5.1 cm

Well Screen: 5.1 cm PVC Size 10 Slot

Site Datum: Sanitary sewer MH cover in SE corner of site (assigned elev. 100.0 m)

OVM: Gastech 1238 ME

DEPTH	BLOW COUNT (1)	SAMPLE ID	SAMPLE LOCATION	OVM (2)	RECOVERY (%)	GRAPHIC LOG	DESCRIPTION	ELEVATION (m)
ft m								
-3								
-2								100.00
-1								
0							Ground Surface	99.56
1	9-12-8-5	BH-504-1	▲	<25	17		SAND and GRAVEL FILL moist, brown, medium dense, medium	99.00
2								
3	12-19-22-22	BH-504-2	◆	<25	50		dense	
4								
5								
6	7-8-8-10	BH-504-3	▲	<25	33		medium dense	98.00
7								
8								
9	5-9-14-19	BH-504-4	◆	<25	100		SILT wet, brown, trace sand and gravel, very stiff	97.00
10								
11	9-13-32-40	BH-504-5	▲	<25	63		hard	96.00
12								
13								
14		BH-504-6	▲	<25	100		1" shale layer	
15							End of borehole at 4.4 m bgs.	95.00
16								
17								
18								94.00



(1) Blow count per 0.15 m using conventional hammer and split spoons
(2) Organic Vapour Meter (OVM) reading (ppmv unless noted)

The data represented in this borehole log requires interpretation by SNC-Lavalin Environment personnel. Third parties using this log do so at their own risk.

All elevations and locations are approximate.

Monitoring well equipped with dedicated inertial foot valve and polyethylene tubing for sampling.

◆ = Sample submitted for laboratory analysis

NA = Not Applicable



Ministry of the Environment

Well Tag **A 100935**

Master Well Record for Cluster Well Construction Regulation 903 Ontario Water Resources Act Page 1 of 2

Master Well Owner's and Land Owner's Information

First Name: SHELL PRODUCTS LTD. Last Name: Mailing Address: 90 SHEPARD AVE E STE. 600 Municipality: TORONTO Province: ONT Postal Code: M2N 6Y1 Telephone: (416) 221-7711

RECEIVED SEP 16 2010

Location and Construction of the Master Well in the Cluster

Address of Well Location: 3005 DUNDAS ST. W. Township: City/Town/Village: OAKVILLE Province: Ontario Postal Code: L6M 4J4

UTM Coordinates: Zone: 17S Easting: 898548 Northing: 91934 GPS Unit Make: MAGELLAN Model: EXPLORER Mode of Operation: Averaged

Table with 5 columns: General Colour, Most Common Material, Other Materials, General Description, Depth (Metres) From To. Rows include: BROWN SAND & GRAVEL FILL PACKED 0 1.5, BROWN CLAY SILT DENSE 1.5 2.2, BROWN SILT DENSE 2.2 4.0, GREY SHALE HARD 4.5 4.5

Hole Details table with 3 columns: Depth (Metres) From To, Diameter (Centimetres). Row: 0 4.5, 21

Water Use section with checkboxes for Public, Industrial, Domestic, Commercial, Livestock, Municipal, Irrigation, Test Hole, Not used, Dewatering, Monitoring, Cooling & Air Conditioning, Other.

Method of Construction section with checkboxes for Cable Tool, Rotary (Conventional/Reverse/Air), Air Percussion, Diamond, Jetting, Driving, Digging, Boring, Other.

Status of Well section with checkboxes for Test Hole, Replacement Well, Dewatering Well, Alteration (Construction), Abandoned (Insufficient Supply/Poor Water Quality/Other), Other.

No Casing and Screen Used section with Yes/No checkboxes.

Static Water Level Test section with Outside Diameter (6.4) and Slot No. (20).

Construction Details table with 4 columns: Inside Diameter (Centimetres), Material, Wall Thickness, Depth (Metres) From To. Rows: 5.1 PLASTIC CASING 0.65 1.0 1.5, 5.1 PLASTIC SCREEN 0.65 1.5 4.5

Water Details section with multiple rows for Water found at Depth (Metres) and Kind of Water (Fresh/Salty/Sulphur/Minerals/Gas).

Annular Space/Abandonment Sealing Record table with 3 columns: Depth Set at (Metres) From To, Type of Sealant Used (Material and Type), Volume Used (Cubic Metres). Rows: 0 0.3 CONCRETE, 0.3 1.2 BENTONITE CHIPS

Disinfected section with Yes/No checkboxes and Date Master Well Complete (2010/08/19).

Cluster Information section with Total Wells in Cluster (4) and Total Wells on this Property (4).

Location of Well Cluster section with Detailed Map must be provided as an attachment no larger than legal size (8.5" x 14").

Consent to release additional information concerning the cluster to the Director upon request. Signature of Technician/Contractor: Date (2010/08/19).

Well Contractor and Well Technician Information section. Business Name: Environmental Oils & Grease. Business Address: 340 Market St. Municipality: Toronto. Well Contractor's Licence No.: 06217. Well Technician: BLUAIN MATHEW. Well Technician's Licence No.: 21158. Date Submitted: 10/08/19.

Master Well Owner's/Land Owner's consent to use Cluster Form. Signature: Date (2010/08/19).

Ministry Use Only section. Audit No.: M 07313. Date Received: Date of Inspection: Remarks:

Well Tag No. for Master Well (Print Well Tag No.)
A100935

Property Owner's Information

First Name: SHELL PRODUCTS LTD. Last Name: Mailing Address (Street No./Name, RR): 90 SHEPPARD AVE. E STE 600 Municipality: TORONTO
 Province: ONT Postal Code: M2N1G1 E-mail Address: Telephone No. (inc. area code): 416227126

Consent

Property Owner's Consent to use cluster form
Signature: Date (yyyy/mm/dd):
 Consent to release additional information to the Director upon request
Signature of Technician/Contractor: Date (yyyy/mm/dd): 2010/08/19

Cluster Well Information

Address of Well Location (Street Number/Name, RR): 3005 DUNDAS ST. W. Lot: Concession: Township: County/District/Municipality:
 City/Town/Village: OAKVILLE Province: Ontario Postal Code: L6M4J4 GPS Unit Make: MAGELLAN Model: EXPLORIST 100 Unit Mode of Operation: Undifferentiated Averaged Differentiated, specify:

Well # on Sketch	Zone	UTM Coordinates		Full Depth of Hole (metres)	Hole Diameter (cm)	Method of Construction	Casing Material	Casing Length (metres)	Screen Interval (metres)		Annular Space Sealant Used	Static Water Level (metres)	Abandonment Sealant Used	Comments	Date of Completion (yyyy/mm/dd)
		Eastings	Northing						From	To					
NW502	17	598992	4809918	3.7	21	BORING	PLASTIC	1.0	1.0	3.7	BENTONITE CHIPS				2010/08/19
NW503	17	598979	4809907	3.7	21	BORING	PLASTIC	1.0	1.0	3.7	BENTONITE CHIPS				2010/08/19
NW504	17	598968	4809910	3.7	21	BORING	PLASTIC	1.0	1.0	3.7	BENTONITE CHIPS				2010/08/19

Well Contractor and Well Technician Information

Business Name of Well Contractor: Geo-Environmental Business Address (Street Number/Name, RR): 340 Hurontario St. Municipality: Mississauga Province: ONT
 Postal Code: L4R 1S4 Business Telephone No. (inc. area code): 9058763388 Well Contractor's Licence No.: 66017 Business E-mail Address:
 Name of Well Technician (First Name, Last Name): MATHEW BLUMM Well Technician's Licence No.: 21518 Date Submitted (yyyy/mm/dd): Signature of Technician: M/PHL BLL

Date 1st Well in Cluster Constructed (yyyy/mm/dd): 2010/08/19 Date Last Well in Cluster Constructed (yyyy/mm/dd): 2010/08/19

Ministry Use Only

Date Received (yyyy/mm/dd): Date Inspected (yyyy/mm/dd):
 Audit No.: 12127 C Remarks:

APPENDIX E

LABORATORY CERTIFICATE OF ANALYSIS (SOIL)

Your Project #: S09125
 Site: 3005 DUNDAS ST. W., OAKVILLE
 Your C.O.C. #: 00619615

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2010/09/01

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B3308

Received: 2010/08/19, 18:04

Sample Matrix: Soil
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Soil	10	2010/08/20	2010/08/24	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	10	2010/08/20	2010/08/23	CAM SOP-00316	CCME CWS
F4G (CCME Hydrocarbons Gravimetric)	2	2010/08/31	2010/08/31	CAM SOP-00316	CCME CWS
Moisture	10	N/A	2010/08/23	CAM SOP-00445	McKeague 2nd ed 1978
Volatile Organic Compounds in Soil	10	2010/08/20	2010/08/24	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

01 Sep 2010 14:42:09 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: Renata.Spena@maxxamanalytics.com
 Phone# (905) 817-5700 Ext:5818

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

RESULTS OF ANALYSES OF SOIL

Maxxam ID		GW6731	GW6732	GW6733	GW6734	GW6735		
Sampling Date		2010/08/19 09:30	2010/08/19 10:00	2010/08/19 10:15	2010/08/19 11:15	2010/08/19 11:30		
COC Number		00619615	00619615	00619615	00619615	00619615		
	Units	BH-501-3	BH-501-6B	BH-501-7	BH-502-3	BH-502-5	RDL	QC Batch

Inorganics								
Moisture	%	15	8	10	15	10	1	2243181

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		GW6736	GW6737	GW6738	GW6739		GW6740		
Sampling Date		2010/08/19 13:05	2010/08/19 13:15	2010/08/19 14:45	2010/08/19 15:00		2010/08/19 15:00		
COC Number		00619615	00619615	00619615	00619615		00619615		
	Units	BH-503-2	BH-503-4	BH-504-2	BH-504-4	QC Batch	BH-504-44	RDL	QC Batch

Inorganics									
Moisture	%	14	10	4	11	2243181	12	1	2243267

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		GW6731	GW6732	GW6733	GW6734		
Sampling Date		2010/08/19 09:30	2010/08/19 10:00	2010/08/19 10:15	2010/08/19 11:15		
COC Number		00619615	00619615	00619615	00619615		
	Units	BH-501-3	BH-501-6B	BH-501-7	BH-502-3	RDL	QC Batch

Volatile Organics							
Benzene	ug/g	0.006	0.015	0.014	0.007	0.002	2241414
Ethylbenzene	ug/g	0.003	0.011	0.004	0.002	0.002	2241414
Methyl t-butyl ether (MTBE)	ug/g	<0.002	<0.002	<0.002	<0.002	0.002	2241414
Toluene	ug/g	0.010	0.016	0.015	0.011	0.002	2241414
p+m-Xylene	ug/g	0.013	0.012	0.010	0.013	0.002	2241414
o-Xylene	ug/g	0.004	0.003	0.003	0.004	0.002	2241414
Xylene (Total)	ug/g	0.016	0.015	0.012	0.016	0.002	2241414
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	95	96	92	92		2241414
D4-1,2-Dichloroethane	%	104	100	91	93		2241414
D8-Toluene	%	103	110	104	104		2241414

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		GW6735	GW6736	GW6737	GW6738		
Sampling Date		2010/08/19 11:30	2010/08/19 13:05	2010/08/19 13:15	2010/08/19 14:45		
COC Number		00619615	00619615	00619615	00619615		
	Units	BH-502-5	BH-503-2	BH-503-4	BH-504-2	RDL	QC Batch

Volatile Organics							
Benzene	ug/g	0.005	0.007	0.006	0.005	0.002	2241414
Ethylbenzene	ug/g	<0.002	0.002	<0.002	0.002	0.002	2241414
Methyl t-butyl ether (MTBE)	ug/g	0.39	<0.002	<0.002	<0.002	0.002	2241414
Toluene	ug/g	0.011	0.011	0.012	0.008	0.002	2241414
p+m-Xylene	ug/g	0.012	0.013	0.013	0.006	0.002	2241414
o-Xylene	ug/g	0.003	0.004	0.003	0.002	0.002	2241414
Xylene (Total)	ug/g	0.014	0.017	0.016	0.008	0.002	2241414
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	90	89	91	93		2241414
D4-1,2-Dichloroethane	%	90	91	87	90		2241414
D8-Toluene	%	115	104	105	103		2241414

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		GW6739	GW6740		
Sampling Date		2010/08/19 15:00	2010/08/19 15:00		
COC Number		00619615	00619615		
	Units	BH-504-4	BH-504-44	RDL	QC Batch

Volatile Organics					
Benzene	ug/g	0.006	0.006	0.002	2241414
Ethylbenzene	ug/g	<0.002	<0.002	0.002	2241414
Methyl t-butyl ether (MTBE)	ug/g	0.15	0.23	0.002	2241414
Toluene	ug/g	0.010	0.012	0.002	2241414
p+m-Xylene	ug/g	0.010	0.011	0.002	2241414
o-Xylene	ug/g	0.003	0.003	0.002	2241414
Xylene (Total)	ug/g	0.012	0.014	0.002	2241414
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	87	86		2241414
D4-1,2-Dichloroethane	%	89	87		2241414
D8-Toluene	%	104	112		2241414

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GW6731	GW6731	GW6732	GW6733		
Sampling Date		2010/08/19 09:30	2010/08/19 09:30	2010/08/19 10:00	2010/08/19 10:15		
COC Number		00619615	00619615	00619615	00619615		
	Units	BH-501-3	BH-501-3 Lab-Dup	BH-501-6B	BH-501-7	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/g	25		<10	<10	10	2241204
F1 (C6-C10) - BTEX	ug/g	25		<10	<10	10	2241204
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	500	400			100	2251778
F2 (C10-C16 Hydrocarbons)	ug/g	13		<10	<10	10	2241435
F3 (C16-C34 Hydrocarbons)	ug/g	50		<10	<10	10	2241435
F4 (C34-C50 Hydrocarbons)	ug/g	61		<10	14	10	2241435
Reached Baseline at C50	ug/g	No		Yes	Yes		2241435
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	99		98	100		2241204
4-Bromofluorobenzene	%	99		96	95		2241204
D10-Ethylbenzene	%	98		93	96		2241204
D4-1,2-Dichloroethane	%	99		97	99		2241204
o-Terphenyl	%	86		88	91		2241435

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GW6734	GW6735	GW6736	GW6737		
Sampling Date		2010/08/19 11:15	2010/08/19 11:30	2010/08/19 13:05	2010/08/19 13:15		
COC Number		00619615	00619615	00619615	00619615		
	Units	BH-502-3	BH-502-5	BH-503-2	BH-503-4	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/g	<10	<10	<10	<10	10	2241204
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	<10	10	2241204
F2-F4 Hydrocarbons							
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g			400		100	2251778
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	10	<10	10	2241435
F3 (C16-C34 Hydrocarbons)	ug/g	<10	<10	58	<10	10	2241435
F4 (C34-C50 Hydrocarbons)	ug/g	<10	<10	64	<10	10	2241435
Reached Baseline at C50	ug/g	Yes	Yes	No	Yes		2241435
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	101	100	98	102		2241204
4-Bromofluorobenzene	%	97	96	96	94		2241204
D10-Ethylbenzene	%	96	93	97	94		2241204
D4-1,2-Dichloroethane	%	101	99	98	101		2241204
o-Terphenyl	%	94	102	91	91		2241435

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GW6738	GW6739	GW6740		
Sampling Date		2010/08/19 14:45	2010/08/19 15:00	2010/08/19 15:00		
COC Number		00619615	00619615	00619615		
	Units	BH-504-2	BH-504-4	BH-504-44	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	<10	<10	<10	10	2241204
F1 (C6-C10) - BTEX	ug/g	<10	<10	<10	10	2241204
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	<10	<10	<10	10	2241435
F3 (C16-C34 Hydrocarbons)	ug/g	<10	<10	<10	10	2241435
F4 (C34-C50 Hydrocarbons)	ug/g	<10	<10	<10	10	2241435
Reached Baseline at C50	ug/g	Yes	Yes	Yes		2241435
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	101	100	102		2241204
4-Bromofluorobenzene	%	97	94	93		2241204
D10-Ethylbenzene	%	96	94	93		2241204
D4-1,2-Dichloroethane	%	103	103	103		2241204
o-Terphenyl	%	89	91	93		2241435

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B3308
Report Date: 2010/09/01

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE

Package 1	4.7°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

F1-BTEX Analysis:

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W., OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0B3308

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits			
2241204 MSB	Matrix Spike	1,4-Difluorobenzene	2010/08/24		99	%	60 - 140			
		4-Bromofluorobenzene	2010/08/24		99	%	60 - 140			
		D10-Ethylbenzene	2010/08/24		99	%	30 - 130			
		D4-1,2-Dichloroethane	2010/08/24		97	%	60 - 140			
	Spiked Blank	F1 (C6-C10)	2010/08/24		90	%	60 - 140			
		1,4-Difluorobenzene	2010/08/24		98	%	60 - 140			
		4-Bromofluorobenzene	2010/08/24		101	%	60 - 140			
		D10-Ethylbenzene	2010/08/24		97	%	30 - 130			
	Method Blank	D4-1,2-Dichloroethane	2010/08/24		100	%	60 - 140			
		F1 (C6-C10)	2010/08/24		89	%	60 - 140			
		1,4-Difluorobenzene	2010/08/24		102	%	60 - 140			
		4-Bromofluorobenzene	2010/08/24		94	%	60 - 140			
	RPD	D10-Ethylbenzene	2010/08/24		93	%	30 - 130			
		D4-1,2-Dichloroethane	2010/08/24		107	%	60 - 140			
		F1 (C6-C10)	2010/08/24	<10		ug/g				
		F1 (C6-C10) - BTEX	2010/08/24	<10		ug/g				
			F1 (C6-C10)	2010/08/24	NC		%	50		
			F1 (C6-C10) - BTEX	2010/08/24	NC		%	50		
			2241414 JNG	Matrix Spike	4-Bromofluorobenzene	2010/08/24		95	%	60 - 140
					D4-1,2-Dichloroethane	2010/08/24		96	%	60 - 140
D8-Toluene	2010/08/24				104	%	60 - 140			
Benzene	2010/08/24				102	%	39 - 137			
Spiked Blank	Ethylbenzene	2010/08/24			110	%	46 - 150			
	Methyl t-butyl ether (MTBE)	2010/08/24			110	%	37 - 150			
	Toluene	2010/08/24			93	%	30 - 158			
	p+m-Xylene	2010/08/24			93	%	29 - 161			
	o-Xylene	2010/08/24			114	%	45 - 150			
	4-Bromofluorobenzene	2010/08/24			101	%	60 - 140			
	D4-1,2-Dichloroethane	2010/08/24			100	%	60 - 140			
	D8-Toluene	2010/08/24			99	%	60 - 140			
Method Blank	Benzene	2010/08/24		103	%	60 - 140				
	Ethylbenzene	2010/08/24		101	%	60 - 140				
	Methyl t-butyl ether (MTBE)	2010/08/24		113	%	60 - 140				
	Toluene	2010/08/24		98	%	60 - 140				
	p+m-Xylene	2010/08/24		103	%	60 - 140				
	o-Xylene	2010/08/24		104	%	60 - 140				
	4-Bromofluorobenzene	2010/08/23		102	%	60 - 140				
	D4-1,2-Dichloroethane	2010/08/23		101	%	60 - 140				
RPD		D8-Toluene	2010/08/23		97	%	60 - 140			
		Benzene	2010/08/23	<0.002		ug/g				
		Ethylbenzene	2010/08/23	<0.002		ug/g				
		Methyl t-butyl ether (MTBE)	2010/08/23	<0.002		ug/g				
		Toluene	2010/08/23	<0.002		ug/g				
		p+m-Xylene	2010/08/23	<0.002		ug/g				
		o-Xylene	2010/08/23	<0.002		ug/g				
		Xylene (Total)	2010/08/23	<0.002		ug/g				
		Benzene	2010/08/24	NC		%	50			
		Ethylbenzene	2010/08/24	NC		%	50			
		Methyl t-butyl ether (MTBE)	2010/08/24	NC		%	50			
		Toluene	2010/08/24	NC		%	50			
p+m-Xylene	2010/08/24	NC		%	50					
o-Xylene	2010/08/24	NC		%	50					
Xylene (Total)	2010/08/24	NC		%	50					
2241435 JKA	Matrix Spike	o-Terphenyl	2010/08/24		93	%	30 - 130			
		F2 (C10-C16 Hydrocarbons)	2010/08/24		76	%	60 - 130			

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W., OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0B3308

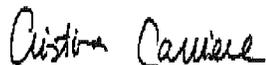
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2241435 JKA	Matrix Spike	F3 (C16-C34 Hydrocarbons)	2010/08/24		76	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/08/24		76	%	60 - 130	
	Spiked Blank	o-Terphenyl	2010/08/24		88	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/08/24		76	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/08/24		76	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/08/24		76	%	60 - 130	
	Method Blank	o-Terphenyl	2010/08/23			93	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/23	<10			ug/g	
		F3 (C16-C34 Hydrocarbons)	2010/08/23	<10			ug/g	
		F4 (C34-C50 Hydrocarbons)	2010/08/23	<10			ug/g	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/08/23	NC			%	50
		F3 (C16-C34 Hydrocarbons)	2010/08/23	NC			%	50
		F4 (C34-C50 Hydrocarbons)	2010/08/23	NC			%	50
		Moisture	2010/08/23	1.4			%	20
2243267 DEE	RPD	Moisture	2010/08/23	2.2		%	20	
2251778 RUS	Matrix Spike [GW6731-02]	F4G-sg (Grav. Heavy Hydrocarbons)	2010/08/31		92	%	65 - 135	
		F4G-sg (Grav. Heavy Hydrocarbons)	2010/08/31		94	%	65 - 135	
	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2010/08/31	<100		ug/g		
	RPD [GW6731-02]	F4G-sg (Grav. Heavy Hydrocarbons)	2010/08/31	NC		%	50	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B0B3308

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



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

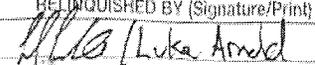
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION Company Name: SNC Lavalin Environment Contact Name: Meghan Fitz-James Address: 20 DeBoers Dr, Suite 200 Toronto, ON M3K 2B4 Phone: 416-635-5882 Fax: 416-635-5353 Email: meghan.fitz-james@snc-lavalin.com		REPORT INFORMATION (if different from invoice) Date: 19-Aug-10 18:04 Company Name: RENATA SPENA Contact Name: Address:  BOB3308 Phone: HSO ENV-520 Email:		PROJECT INFORMATION Quotation #: Shell-GESS P.O. #: Project #: 509125 Project Name: Location: 3005 Dundas St. W., Oakville Sampled By: L. Arnold		MAXXAM JOB NUMBER CHAIN OF CUSTODY # 00619615
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	-----------------------------------------------------------------------

REGULATORY CRITERIA Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form. <input type="checkbox"/> MISA <input checked="" type="checkbox"/> Reg. 153 - 2011 <input type="checkbox"/> Sewer Use <input type="checkbox"/> PWQC <input type="checkbox"/> Table 1 <input type="checkbox"/> Residential / Parkland <input type="checkbox"/> Sanitary <input checked="" type="checkbox"/> Table 2 <input checked="" type="checkbox"/> Industrial / Commercial <input type="checkbox"/> Storm <input type="checkbox"/> Reg. 558 <input type="checkbox"/> Table 3 <input type="checkbox"/> Medium / Fine <input type="checkbox"/> Municipality: <input type="checkbox"/> Table 6 <input type="checkbox"/> Coarse Other (specify): Report Criteria on C of A? <input type="checkbox"/>		ANALYSIS REQUESTED (Please be specific) Regulated Drinking Water? (Y / N) Metals Field Filtered? (Y / N) FI BTEX Fa → Fy P H C M T B E				TURNAROUND TIME (TAT) REQUIRED PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS. Regular (Standard) TAT: <input checked="" type="checkbox"/> 5 to 7 Working Days Rush TAT: Rush Confirmation #: <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days <input type="checkbox"/> 3 days DATE Required: TIME Required:	
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.

	Sample Identification	Date Sampled	Time Sampled	Matrix (RW, SW, Soil, etc.)	Regulated Drinking Water? (Y / N)	Metals Field Filtered? (Y / N)	FI	BTEX	Fa	Fy	P	H	C	M	T	B	E	# of Cont.	COMMENTS / TAT COMMENTS
1	BH-501-3	19 Aug 2010	09:30	Soil	-	-	X	X	X	X	X	X	X	X	X	X	X	2	Initial Recovery - Submitted 2x60mL
2	BH-501-6B		10:00		-	-	X	X	X	X	X	X	X	X	X	X	X	2	Initial Recovery - Submitted 2x60mL
3	BH-501-7		10:15		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Initial Recovery
4	BH-502-3		11:15		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Sample
5	BH-502-5		11:30		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Sample
6	BH-503-2		13:05		-	-	X	X	X	X	X	X	X	X	X	X	X	2	Initial Recovery - Core Sample in 60mL
7	BH-503-4		13:15		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Samples
8	BH-504-2		14:45		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Samples
9	BH-504-4		15:00		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Sample
10	BH-504-44		15:00		-	-	X	X	X	X	X	X	X	X	X	X	X	3	Core Sample
11																			
12																			

RELINQUISHED BY (Signature/Print)  Date: Aug 19 / 2010 Time: 5:00pm	RECEIVED BY (Signature/Print)  Date: 2010/08/19 Time: 16:04	# JARS USED AND NOT SUBMITTED 40	Laboratory Use Only Temperature (°C) on Receipt 5/4/5°C w/ body seal intact
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APPENDIX F

LABORATORY CERTIFICATE OF ANALYSIS (GROUNDWATER)

Your Project #: S09125
 Site: OAKVILLE
 Your C.O.C. #: 20565002, 205650-0

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2010/09/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B6578

Received: 2010/08/25, 19:00

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2010/08/29	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	3	N/A	2010/08/31	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/08/27	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/08/27	2010/08/29	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/08/27	2010/08/30	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	3	N/A	2010/08/31	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2010/08/31	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

01 Sep 2010 14:42:41 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: Renata.Spena@maxxamanalytics.com
 Phone# (905) 817-5700 Ext:5818

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0B6578
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		GY2151	GY2152	GY2153		
Sampling Date		2010/08/25 05:00	2010/08/25 05:30	2010/08/25 04:40		
COC Number		205650-0	205650-0	205650-0		
	Units	MW-403	MW-404	MW-405	RDL	QC Batch

Volatile Organics						
Benzene	ug/L	<0.1	<0.1	0.4	0.1	2247926
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	0.1	2247926
Methyl t-butyl ether (MTBE)	ug/L	11	44	53	0.2	2247926
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	2247926
p+m-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	2247926
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	2247926
Xylene (Total)	ug/L	<0.1	<0.1	<0.1	0.1	2247926
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	94	94	92		2247926
D4-1,2-Dichloroethane	%	116	116	114		2247926
D8-Toluene	%	103	102	103		2247926

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6578
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GY2151	GY2151	GY2152	GY2152		
Sampling Date		2010/08/25 05:00	2010/08/25 05:00	2010/08/25 05:30	2010/08/25 05:30		
COC Number		205650-0	205650-0	205650-0	205650-0		
	Units	MW-403	MW-403 Lab-Dup	MW-404	MW-404 Lab-Dup	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<100	<100	<100		100	2249262
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100		100	2249262
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	<100	100	2247966
F3 (C16-C34 Hydrocarbons)	ug/L	<100		<100	<100	100	2247966
F4 (C34-C50 Hydrocarbons)	ug/L	<100		<100	<100	100	2247966
Reached Baseline at C50	ug/L	Yes		Yes	Yes		2247966
F1 + F2	ug/L	<100		<100		100	2246593
F3 + F4	ug/L	<100		<100		100	2246594
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	100	93	101			2249262
4-Bromofluorobenzene	%	99	97	96			2249262
D10-Ethylbenzene	%	102	92	101			2249262
D4-1,2-Dichloroethane	%	105	108	104			2249262
o-Terphenyl	%	103		127	101		2247966

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6578
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GY2153		
Sampling Date		2010/08/25 04:40		
COC Number		205650-0		
	Units	MW-405	RDL	QC Batch

BTEX & F1 Hydrocarbons				
F1 (C6-C10)	ug/L	<100	100	2249262
F1 (C6-C10) - BTEX	ug/L	<100	100	2249262
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	2247966
F3 (C16-C34 Hydrocarbons)	ug/L	<100	100	2247966
F4 (C34-C50 Hydrocarbons)	ug/L	<100	100	2247966
Reached Baseline at C50	ug/L	Yes		2247966
F1 + F2	ug/L	<100	100	2246593
F3 + F4	ug/L	<100	100	2246594
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	99		2249262
4-Bromofluorobenzene	%	94		2249262
D10-Ethylbenzene	%	98		2249262
D4-1,2-Dichloroethane	%	104		2249262
o-Terphenyl	%	105		2247966

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6578
Report Date: 2010/09/01

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

Package 1	17.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0B6578

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2247926 MAL	Matrix Spike	4-Bromofluorobenzene	2010/08/30		102	%	70 - 130	
		D4-1,2-Dichloroethane	2010/08/30		118	%	70 - 130	
		D8-Toluene	2010/08/30		101	%	70 - 130	
		Benzene	2010/08/30		105	%	70 - 130	
		Ethylbenzene	2010/08/30		98	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2010/08/30		114	%	70 - 130	
		Toluene	2010/08/30		101	%	70 - 130	
		p+m-Xylene	2010/08/30		96	%	70 - 130	
		o-Xylene	2010/08/30		101	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2010/08/30		102	%	70 - 130
	D4-1,2-Dichloroethane		2010/08/30		119	%	70 - 130	
	D8-Toluene		2010/08/30		102	%	70 - 130	
	Benzene		2010/08/30		90	%	70 - 130	
	Ethylbenzene		2010/08/30		85	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2010/08/30		103	%	70 - 130	
	Toluene		2010/08/30		86	%	70 - 130	
	p+m-Xylene		2010/08/30		83	%	70 - 130	
	o-Xylene		2010/08/30		87	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2010/08/30		95	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/30		121	%	70 - 130	
		D8-Toluene	2010/08/30		101	%	70 - 130	
		Benzene	2010/08/30	<0.1		ug/L		
		Ethylbenzene	2010/08/30	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2010/08/30	<0.2		ug/L		
		Toluene	2010/08/30	<0.2		ug/L		
		p+m-Xylene	2010/08/30	<0.1		ug/L		
		o-Xylene	2010/08/30	<0.1		ug/L		
		Xylene (Total)	2010/08/30	<0.1		ug/L		
	RPD	Benzene	2010/08/30	NC		%	40	
		Ethylbenzene	2010/08/30	NC		%	40	
Methyl t-butyl ether (MTBE)		2010/08/30	NC		%	40		
Toluene		2010/08/30	NC		%	40		
p+m-Xylene		2010/08/30	NC		%	40		
o-Xylene		2010/08/30	NC		%	40		
Xylene (Total)		2010/08/30	NC		%	40		
2247966 BLZ		Matrix Spike [GY2151-01]	o-Terphenyl	2010/08/31		122	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2010/08/31		113	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2010/08/31		113	%	60 - 130
	F4 (C34-C50 Hydrocarbons)		2010/08/31		113	%	60 - 130	
	Spiked Blank	o-Terphenyl	2010/08/31		112	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/08/31		105	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/08/31		105	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/08/31		105	%	60 - 130	
	Method Blank	o-Terphenyl	2010/08/27		100	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/08/27	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2010/08/27	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2010/08/27	<100		ug/L		
	RPD [GY2152-01]	F2 (C10-C16 Hydrocarbons)	2010/08/29	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2010/08/29	NC		%	50	
		F4 (C34-C50 Hydrocarbons)	2010/08/29	NC		%	50	
2249262 AAI	Matrix Spike [GY2151-02]	1,4-Difluorobenzene	2010/08/30		100	%	70 - 130	
		4-Bromofluorobenzene	2010/08/30		100	%	70 - 130	
		D10-Ethylbenzene	2010/08/30		94	%	70 - 130	

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0B6578

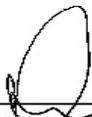
QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2249262 AAI	Matrix Spike [GY2151-02]	D4-1,2-Dichloroethane	2010/08/30		95	%	70 - 130	
		F1 (C6-C10)	2010/08/30		103	%	70 - 130	
	Spiked Blank	1,4-Difluorobenzene	2010/08/29		99	%	70 - 130	
		4-Bromofluorobenzene	2010/08/29		100	%	70 - 130	
		D10-Ethylbenzene	2010/08/29		96	%	70 - 130	
		D4-1,2-Dichloroethane	2010/08/29		101	%	70 - 130	
	Method Blank	F1 (C6-C10)	2010/08/29		93	%	70 - 130	
		1,4-Difluorobenzene	2010/08/29		86	%	70 - 130	
		4-Bromofluorobenzene	2010/08/29		103	%	70 - 130	
		D10-Ethylbenzene	2010/08/29		85	%	70 - 130	
	RPD [GY2151-02]	D4-1,2-Dichloroethane	2010/08/29			125	%	70 - 130
		F1 (C6-C10)	2010/08/29		<100		ug/L	
		F1 (C6-C10) - BTEX	2010/08/29		<100		ug/L	
		F1 (C6-C10)	2010/08/29		NC		%	40
			F1 (C6-C10) - BTEX	2010/08/29		NC	%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

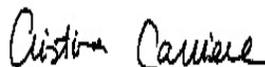
Validation Signature Page

Maxxam Job #: B0B6578

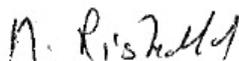
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ABDI MOHAMUD, Senior Analyst



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5779 www.maxxamanalytics.com

CHAIN OF CUSTO

25-A
 RENATA S
 B0B6578
 ASR

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Sheri Schembri
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3K 2B4
 Phone: (416)635-5882 Fax: (416)635-5353
 Email: sheri.schembri@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name: Meghan Fitz-James
 Address:
 Phone: Fax:
 Email: meghan.fitz-james@snclavalin.com

PROJECT INFORMATION:

Quotation #: A93414
 P.O. #:
 Project #: S09125
 Project Name:
 Site #: Oakville
 Sampled By: HBench

REGULATORY CRITERIA:

MISA Reg. 153/04 **2011** Sewer Use Sanitary
 PWQO Table 1 Residential/Parkland Storm
 Table 2 Industrial/Commercial Combined
 Reg. 558 Table 3 Medium/Fine Municipality _____
 Table 6 Coarse
 Other (specify) _____ Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Regulated Drinking Water? (Y/N) _____
 Metals Field Filtered? (Y/N) _____

ANALYSIS REQUESTED (Please be specific):

MT9 BTEX/F1-F4 NOT INCLU. F4G	LAB-83 MTBE																		
-------------------------------	-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TURNA
PLEASE PROVIDE
 Regular (Standard) TAT:
 (will be applied if Rush TAT Standard TAT = 5-7 Working days - contact your Project Manager)
 Job Specific Rush TAT (if applicable):
 Date Required: _____
 Rush Confirmation Number: _____

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	MT9 BTEX/F1-F4 NOT INCLU. F4G	LAB-83 MTBE											
1	MW-403	Aug 25/10	5:00 pm	GW	N	-	X	X											8 - sediment
2	MW-404	↓	5:30 pm	↓	N	-	X	X											8
3	MW-405	↓	4:40 pm	↓	N	-	X	X											8 - sediment
4																			
5																			
6																			
7																			
8																			
9																			
10																			

RELINQUISHED BY: (Signature/Print) HBench / HBench **Date: (YY/MM/DD)** 10/08/25 **Time:** 6:15

RECEIVED BY: (Signature/Print) [Signature] **Date: (YY/MM/DD)** 10/08/25 **Time:** 19:00

Jars Used and Not Submitted 0

Time Sensitive

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: SO9125
 Site: OAKVILLE
 Your C.O.C. #: 00619684

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2010/09/02

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B6580

Received: 2010/08/25, 19:00

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2010/08/29	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	4	N/A	2010/08/30	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	4	2010/08/26	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	4	N/A	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2010/08/31	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/09/01	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

02 Sep 2010 12:33:38 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: Renata.Spena@maxxamanalytics.com
 Phone# (905) 817-5700 Ext:5818

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0B6580
 Report Date: 2010/09/02

SNC-Lavalin Environment
 Client Project #: SO9125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		GY2155	GY2155	GY2156		GY2157		
Sampling Date		2010/08/25 02:00	2010/08/25 02:00	2010/08/25 03:00		2010/08/25 02:40		
COC Number		00619684	00619684	00619684		00619684		
	Units	MW-501	MW-501 Lab-Dup	MW-502	RDL	MW-503	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	<0.1	<0.1	0.2	0.1	<1	1	2251016
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	0.1	<1	1	2251016
Methyl t-butyl ether (MTBE)	ug/L	13	14	17	0.2	160	2	2251016
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	<2	2	2251016
p+m-Xylene	ug/L	<0.1	<0.1	0.1	0.1	<1	1	2251016
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<1	1	2251016
Xylene (Total)	ug/L	<0.1	<0.1	0.1	0.1	<1	1	2251016
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	96	96	96		89		2251016
D4-1,2-Dichloroethane	%	90	91	93		105		2251016
D8-Toluene	%	100	100	100		103		2251016

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6580
 Report Date: 2010/09/02

SNC-Lavalin Environment
 Client Project #: SO9125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		GY2158		
Sampling Date		2010/08/25 02:20		
COC Number		00619684		
	Units	MW-504	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.3	0.3	2251016
Ethylbenzene	ug/L	<0.3	0.3	2251016
Methyl t-butyl ether (MTBE)	ug/L	60	0.5	2251016
Toluene	ug/L	<0.5	0.5	2251016
p+m-Xylene	ug/L	<0.3	0.3	2251016
o-Xylene	ug/L	<0.3	0.3	2251016
Xylene (Total)	ug/L	<0.3	0.3	2251016
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	97		2251016
D4-1,2-Dichloroethane	%	96		2251016
D8-Toluene	%	100		2251016

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6580
 Report Date: 2010/09/02

SNC-Lavalin Environment
 Client Project #: SO9125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GY2155	GY2156	GY2157	GY2158		
Sampling Date		2010/08/25 02:00	2010/08/25 03:00	2010/08/25 02:40	2010/08/25 02:20		
COC Number		00619684	00619684	00619684	00619684		
	Units	MW-501	MW-502	MW-503	MW-504	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<100	<100	<100	<100	100	2249262
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	2249262
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2247207
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2247207
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2247207
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2247207
F1 + F2	ug/L	<100	<100	<100	<100	100	2246593
F3 + F4	ug/L	<100	<100	<100	<100	100	2246594
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	96	101	99	99		2249262
4-Bromofluorobenzene	%	102	95	97	95		2249262
D10-Ethylbenzene	%	94	101	94	94		2249262
D4-1,2-Dichloroethane	%	109	101	106	102		2249262
o-Terphenyl	%	96	94	98	97		2247207

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6580
Report Date: 2010/09/02

SNC-Lavalin Environment
Client Project #: SO9125
Project name: OAKVILLE

Package 1	19.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample GY2157-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample GY2158-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: SO9125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report

Maxxam Job Number: MB0B6580

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2247207 ZZ	Matrix Spike	o-Terphenyl	2010/08/27		101	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27		73	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/08/27		73	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/08/27		73	%	60 - 130
	Spiked Blank	o-Terphenyl	2010/08/27		107	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27		79	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/08/27		79	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/08/27		79	%	60 - 130
	Method Blank	o-Terphenyl	2010/08/27		102	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2010/08/27	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2010/08/27	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/08/27	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/08/27	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2010/08/27	NC		%	50
2249262 AAI	Matrix Spike	1,4-Difluorobenzene	2010/08/30		100	%	70 - 130
		4-Bromofluorobenzene	2010/08/30		100	%	70 - 130
		D10-Ethylbenzene	2010/08/30		94	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/30		95	%	70 - 130
		F1 (C6-C10)	2010/08/30		103	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2010/08/29		99	%	70 - 130
		4-Bromofluorobenzene	2010/08/29		100	%	70 - 130
		D10-Ethylbenzene	2010/08/29		96	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/29		101	%	70 - 130
		F1 (C6-C10)	2010/08/29		93	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2010/08/29		86	%	70 - 130
		4-Bromofluorobenzene	2010/08/29		103	%	70 - 130
		D10-Ethylbenzene	2010/08/29		85	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/29		125	%	70 - 130
		F1 (C6-C10)	2010/08/29	<100		ug/L	
RPD	F1 (C6-C10) - BTEX	2010/08/29	<100		ug/L		
	F1 (C6-C10)	2010/08/29	NC		%	40	
	F1 (C6-C10) - BTEX	2010/08/29	NC		%	40	
2251016 FS	Matrix Spike	4-Bromofluorobenzene	2010/08/31		97	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/31		85	%	70 - 130
		D8-Toluene	2010/08/31		103	%	70 - 130
		Benzene	2010/08/31		93	%	70 - 130
		Ethylbenzene	2010/08/31		95	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/08/31		N/C (1)	%	70 - 130
		Toluene	2010/08/31		95	%	70 - 130
	Spiked Blank	p+m-Xylene	2010/08/31		96	%	70 - 130
		o-Xylene	2010/08/31		92	%	70 - 130
		4-Bromofluorobenzene	2010/08/31		98	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/31		88	%	70 - 130
		D8-Toluene	2010/08/31		101	%	70 - 130
		Benzene	2010/08/31		94	%	70 - 130
		Ethylbenzene	2010/08/31		92	%	70 - 130
	Method Blank	Methyl t-butyl ether (MTBE)	2010/08/31		83	%	70 - 130
		Toluene	2010/08/31		92	%	70 - 130
		p+m-Xylene	2010/08/31		92	%	70 - 130
		o-Xylene	2010/08/31		90	%	70 - 130
		4-Bromofluorobenzene	2010/08/31		94	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/31		87	%	70 - 130
		D8-Toluene	2010/08/31		103	%	70 - 130
		Benzene	2010/08/31	<0.1		ug/L	

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: SO9125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0B6580

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2251016 FS	Method Blank	Ethylbenzene	2010/08/31	<0.1		ug/L	
		Methyl t-butyl ether (MTBE)	2010/08/31	<0.2		ug/L	
		Toluene	2010/08/31	<0.2		ug/L	
		p+m-Xylene	2010/08/31	<0.1		ug/L	
		o-Xylene	2010/08/31	<0.1		ug/L	
		Xylene (Total)	2010/08/31	<0.1		ug/L	
	RPD [GY2155-03]	Benzene	2010/08/31	NC		%	40
		Ethylbenzene	2010/08/31	NC		%	40
		Methyl t-butyl ether (MTBE)	2010/08/31	1.7		%	40
		Toluene	2010/08/31	NC		%	40
		p+m-Xylene	2010/08/31	NC		%	40
		o-Xylene	2010/08/31	NC		%	40
		Xylene (Total)	2010/08/31	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) The recovery in the matrix spike was not calculated (NC). Because of the high concentration of this analyte in the parent sample, the relative difference between the spiked and unspiked concentrations is not sufficiently significant to permit a reliable recovery calculation.

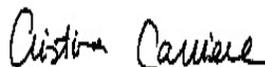
Validation Signature Page

Maxxam Job #: B0B6580

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



ABDI MOHAMUD, Senior Analyst



CRISTINA CARRIERE, Scientific Services



JEEVARAJ JEEVARATNAM, Senior Analyst

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INVOICE INFORMATION	REPORT INFORMATION (if differs from invoice)	PROJECT INFORMATION	MAXXAM JOB NUMBER
Company Name: #01644 Snc Lavalin Environment	Company Name:	Quotation #: Shell-Gess	
Contact Name: Shari Schembri	Contact Name: Meghan Fitz-James	P.O. #: —	CHAIN OF CUSTODY #
Address: 20 DeBoers Dr, Suite 200 Toronto, ON M3K 2B4	Address:	Project #: SC9125	
Phone: (416) 635-5882 Fax: (416) 635-5353	Phone: _____ Fax: _____	Project Name: —	
Email: shari.schembri@snc-lavalin.com	Email: meghan.fitz-james@snc-lavalin.com	Location: Oakville	00 619684
		Sampled By: H Bench	

REGULATORY CRITERIA	ANALYSIS REQUESTED (Please be specific)	TURNAROUND TIME (TAT) REQUIRED				
<p>Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.</p> <p><input type="checkbox"/> MISA <input checked="" type="checkbox"/> Reg. 153 2011 <input type="checkbox"/> Sewer Use</p> <p><input type="checkbox"/> PWQO <input checked="" type="checkbox"/> Table 1 <input type="checkbox"/> Residential / Parkland <input type="checkbox"/> Sanitary</p> <p><input type="checkbox"/> Reg. 558 <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Industrial / Commercial <input type="checkbox"/> Storm</p> <p><input type="checkbox"/> Table 3 <input type="checkbox"/> Medium / Fine <input type="checkbox"/> Municipality: _____</p> <p><input type="checkbox"/> Table 6 <input type="checkbox"/> Coarse</p> <p>Other (specify): _____ Report Criteria on C of A? <input type="checkbox"/></p>	<p>Regulated Drinking Water? (Y / N)</p> <p>Metals Field Filtered? (Y / N)</p> <p>BTEX / FI-E4 (not including LABBB MBTE)</p>	<p>PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.</p> <p>Regular (Standard) TAT: <input checked="" type="checkbox"/> 5 to 7 Working Days</p> <p>Rush TAT: Rush Confirmation #: _____</p> <p>25-Aug-10 19:00 RENATA SPENA  B0B6580 FW ENV-873</p> <p>Please no contact yr > 5 days -</p>				
<p>SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.</p>						
Sample Identification	Date Sampled	Time Sampled	Matrix (GW, SW, Soil, etc.)	Regulated Drinking Water? (Y / N)	Metals Field Filtered? (Y / N)	# of Cont.
1 MW-501	Aug 25/10	2:00pm	GW	N	X	8 - sediment in samples
2 MW-502	↓	3:00pm	↓	N	X	8 - sediment in samples
3 MW-503	↓	2:40 pm	↓	N	X	8 - sediment in samples
4 MW-504	↓	2:20 pm	↓	N	X	8 - sediment in samples
5						
6						
7						
8						
9						
10						
11						
12						
RELINQUISHED BY (Signature/Print)	RECEIVED BY (Signature/Print)	Date	Time	# JARS USED AND NOT SUBMITTED	Laboratory Use Only	
H Bench / H Bench	FAN WANG	Aug 25/10	5:50 pm	0	Temperature (°C) on Receipt 18/20/20°C	

Your Project #: S09125
 Site: OAKVILLE
 Your C.O.C. #: 20565001, 205650-0

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2010/09/01

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B6584

Received: 2010/08/25, 18:58

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2010/08/29	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	3	N/A	2010/08/30	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	3	2010/08/26	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	3	N/A	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2010/08/31	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

01 Sep 2010 16:30:49 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: Renata.Spena@maxxamanalytics.com
 Phone# (905) 817-5700 Ext:5818

=====
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Total cover pages: 1

Maxxam Job #: B0B6584
 Report Date: 2010/09/01

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		GY2163		GY2164		GY2165		
Sampling Date		2010/08/25 03:30		2010/08/25 04:10		2010/08/25 03:35		
COC Number		205650-0		205650-0		205650-0		
	Units	MW-401	RDL	MW-402	RDL	BH-98	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	9.9	0.2	<0.1	0.1	9.0	0.2	2251016
Ethylbenzene	ug/L	1.9	0.2	<0.1	0.1	1.6	0.2	2251016
Methyl t-butyl ether (MTBE)	ug/L	7.2	0.4	26	0.2	6.8	0.4	2251016
Toluene	ug/L	0.5	0.4	<0.2	0.2	0.5	0.4	2251016
p+m-Xylene	ug/L	0.7	0.2	<0.1	0.1	0.6	0.2	2251016
o-Xylene	ug/L	<0.2	0.2	<0.1	0.1	<0.2	0.2	2251016
Xylene (Total)	ug/L	0.7	0.2	<0.1	0.1	0.6	0.2	2251016
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	99		95		98		2251016
D4-1,2-Dichloroethane	%	97		89		96		2251016
D8-Toluene	%	98		101		97		2251016

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6584
 Report Date: 2010/09/01

 SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GY2163	GY2164	GY2165		
Sampling Date		2010/08/25 03:30	2010/08/25 04:10	2010/08/25 03:35		
COC Number		205650-0	205650-0	205650-0		
	Units	MW-401	MW-402	BH-98	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	260	<100	260	100	2249262
F1 (C6-C10) - BTEX	ug/L	250	<100	240	100	2249262
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	2247207
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	100	2247207
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	100	2247207
Reached Baseline at C50	ug/L	Yes	Yes	Yes		2247207
F1 + F2	ug/L	250	<100	240	100	2246593
F3 + F4	ug/L	<100	<100	<100	100	2246594
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	97	94	100		2249262
4-Bromofluorobenzene	%	100	97	96		2249262
D10-Ethylbenzene	%	99	97	101		2249262
D4-1,2-Dichloroethane	%	105	109	104		2249262
o-Terphenyl	%	96	96	97		2247207

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0B6584
Report Date: 2010/09/01

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

Package 1	17.0°C
-----------	--------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

F1-BTEX Analysis:

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample GY2163-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample GY2165-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0B6584

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2247207 ZZ	Matrix Spike	o-Terphenyl	2010/08/27		101	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27		73	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/08/27		73	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/08/27		73	%	60 - 130
	Spiked Blank	o-Terphenyl	2010/08/27		107	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27		79	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/08/27		79	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/08/27		79	%	60 - 130
	Method Blank	o-Terphenyl	2010/08/27		102	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2010/08/27	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2010/08/27	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/08/27	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/08/27	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2010/08/27	NC		%	50
2249262 AAI	Matrix Spike	1,4-Difluorobenzene	2010/08/30		100	%	70 - 130
		4-Bromofluorobenzene	2010/08/30		100	%	70 - 130
		D10-Ethylbenzene	2010/08/30		94	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/30		95	%	70 - 130
		F1 (C6-C10)	2010/08/30		103	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2010/08/29		99	%	70 - 130
		4-Bromofluorobenzene	2010/08/29		100	%	70 - 130
		D10-Ethylbenzene	2010/08/29		96	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/29		101	%	70 - 130
		F1 (C6-C10)	2010/08/29		93	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2010/08/29		86	%	70 - 130
		4-Bromofluorobenzene	2010/08/29		103	%	70 - 130
		D10-Ethylbenzene	2010/08/29		85	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/29		125	%	70 - 130
		F1 (C6-C10)	2010/08/29	<100		ug/L	
RPD	F1 (C6-C10) - BTEX	2010/08/29	<100		ug/L		
	F1 (C6-C10)	2010/08/29	NC		%	40	
	F1 (C6-C10) - BTEX	2010/08/29	NC		%	40	
2251016 FS	Matrix Spike [GY2164-03]	4-Bromofluorobenzene	2010/08/31		97	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/31		85	%	70 - 130
		D8-Toluene	2010/08/31		103	%	70 - 130
		Benzene	2010/08/31		93	%	70 - 130
		Ethylbenzene	2010/08/31		95	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/08/31		N/C (1)	%	70 - 130
		Toluene	2010/08/31		95	%	70 - 130
		p+m-Xylene	2010/08/31		96	%	70 - 130
		o-Xylene	2010/08/31		92	%	70 - 130
		4-Bromofluorobenzene	2010/08/31		98	%	70 - 130
		D4-1,2-Dichloroethane	2010/08/31		88	%	70 - 130
		D8-Toluene	2010/08/31		101	%	70 - 130
	Spiked Blank	Benzene	2010/08/31		94	%	70 - 130
		Ethylbenzene	2010/08/31		92	%	70 - 130
		Methyl t-butyl ether (MTBE)	2010/08/31		83	%	70 - 130
		Toluene	2010/08/31		92	%	70 - 130
		p+m-Xylene	2010/08/31		92	%	70 - 130
		o-Xylene	2010/08/31		90	%	70 - 130
Method Blank	4-Bromofluorobenzene	2010/08/31		94	%	70 - 130	
	D4-1,2-Dichloroethane	2010/08/31		87	%	70 - 130	
	D8-Toluene	2010/08/31		103	%	70 - 130	

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0B6584

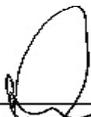
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2251016 FS	Method Blank	Benzene	2010/08/31	<0.1		ug/L	
		Ethylbenzene	2010/08/31	<0.1		ug/L	
		Methyl t-butyl ether (MTBE)	2010/08/31	<0.2		ug/L	
		Toluene	2010/08/31	<0.2		ug/L	
		p+m-Xylene	2010/08/31	<0.1		ug/L	
		o-Xylene	2010/08/31	<0.1		ug/L	
		Xylene (Total)	2010/08/31	<0.1		ug/L	
	RPD	Benzene	2010/08/31	NC		%	40
		Ethylbenzene	2010/08/31	NC		%	40
		Methyl t-butyl ether (MTBE)	2010/08/31	1.7		%	40
		Toluene	2010/08/31	NC		%	40
		p+m-Xylene	2010/08/31	NC		%	40
		o-Xylene	2010/08/31	NC		%	40
		Xylene (Total)	2010/08/31	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
 (1) The recovery in the matrix spike was not calculated (NC). Because of the high concentration of this analyte in the parent sample, the relative difference between the spiked and unspiked concentrations is not sufficiently significant to permit a reliable recovery calculation.

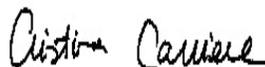
Validation Signature Page

Maxxam Job #: B0B6584

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



ABDI MOHAMUD, Senior Analyst



CRISTINA CARRIERE, Scientific Services



JEEVARAJ JEEVARATNAM, Senior Analyst

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Maxxam Analytics International Corporation o/a Maxxam Analytics
 6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6286 Fax: (905) 817-5779 www.maxxamanalytics.com

CHAIN OF

25-Aug-10 18:58
 RENATA SPENA



B0B6584

FW ENV-873

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Sheri Schembri
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3K 2B4
 Phone: (416)635-5882 Fax: (416)635-5353
 Email: sheri.schembri@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name: Meghan Fitz-James
 Address:
 Phone: Fax:
 Email: meghan.fitz-james@snclavalin.com

PROJECT INFORMATION:

Quotation #: A93414
 P.O. #:
 Project #: S09125
 Project Name:
 Site #: Oakville
 Sampled By: H/Bench

CHAIN OF CUSTODY

C#205650-01-01

REGULATORY CRITERIA:

MISA Reg 153/04
 PWQO Table 1 Residential/Parkland
 Table 2 Industrial/Commercial
 Reg. 558 Table 3 Medium/Fine
 Table 6 Coarse
 Other (specify): _____ Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific)

Regulated Drinking water? (Y/N) _____
 Metals Field Filtered? (Y/N) _____
 MT9 BTEX/F1-F4 NOT INCLU. F4G
 LAB-83 MTBE

TURNAROUND

PLEASE PROVIDE ADVANCE NOTICE

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most samples
 Please note: Standard TAT for certain samples - contact your Project Manager for details
 Job Specific Rush TAT (if applies to this sample) _____
 Date Required: _____
 Rush Confirmation Number: _____

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking water? (Y/N)	Metals Field Filtered? (Y/N)	MT9 BTEX/F1-F4 NOT INCLU. F4G	LAB-83 MTBE	# of Bottles	Notes
1	MW-401	Aug 25/10	3:30pm	GW	N	-	X	X	8	-sediment in
2	MW-402	↓	4:10pm	↓	N	-	X	X	8	-sediment in
3	BH-98	↓	3:35pm	↓	N	-	X	X	8	-sediment in
4										
5										
6										
7										
8										
9										
10										

RELINQUISHED BY: (Signature/Print) H/Bench / H/Bench	Date: (YY/MM/DD) 10/08/25	Time: 6:10pm	RECEIVED BY: (Signature/Print) FANA WANG	Date: (YY/MM/DD) 10/08/25	Time: 6:10pm	# Jars Used and Not Submitted 8	Time Sensitive <input type="checkbox"/>	Temperature (°C) 16/17
---------------------------------------------------------	------------------------------	-----------------	---------------------------------------------	------------------------------	-----------------	------------------------------------	--------------------------------------------	---------------------------

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN AN INCREASED TAT DELAYS.

Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: SO9125
Site: OAKVILLE
Your C.O.C. #: 00619685

Attention: Meghan Fitz-James

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3K 2B4

Report Date: 2010/08/31

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0B6586

Received: 2010/08/25, 18:58

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2010/08/29	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2010/08/31	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/08/26	2010/08/27	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2010/08/27	CAM SOP-00316	CCME Hydrocarbons

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

31 Aug 2010 15:00:49 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
Email: Renata.Spena@maxxamanalytics.com
Phone# (905) 817-5700 Ext:5818

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0B6586
 Report Date: 2010/08/31

 SNC-Lavalin Environment
 Client Project #: SO9125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		GY2181	GY2182		
Sampling Date		2010/08/25 04:15	2010/08/25 06:00		
COC Number		00619685	00619685		
	Units	BH-99	TRIP BLANK	RDL	QC Batch

BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.2	<0.2	0.2	2249414
Toluene	ug/L	<0.2	<0.2	0.2	2249414
Ethylbenzene	ug/L	<0.2	<0.2	0.2	2249414
o-Xylene	ug/L	<0.2	<0.2	0.2	2249414
p+m-Xylene	ug/L	<0.4	<0.4	0.4	2249414
Total Xylenes	ug/L	<0.4	<0.4	0.4	2249414
F1 (C6-C10)	ug/L	<100		100	2249414
F1 (C6-C10) - BTEX	ug/L	<100		100	2249414
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100		100	2247207
F3 (C16-C34 Hydrocarbons)	ug/L	<100		100	2247207
F4 (C34-C50 Hydrocarbons)	ug/L	<100		100	2247207
Reached Baseline at C50	ug/L	Yes			2247207
F1 + F2	ug/L	<100		100	2246593
F3 + F4	ug/L	<100		100	2246594
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	99		2249414
4-Bromofluorobenzene	%	100	100		2249414
D10-Ethylbenzene	%	90	95		2249414
D4-1,2-Dichloroethane	%	105	102		2249414
o-Terphenyl	%	97			2247207
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B0B6586
Report Date: 2010/08/31

SNC-Lavalin Environment
Client Project #: SO9125
Project name: OAKVILLE

Package 1	17.0°C
-----------	--------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: SO9125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0B6586

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2247207 ZZ	Matrix Spike	o-Terphenyl	2010/08/27		101	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/08/27		73	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/08/27		73	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/08/27		73	%	60 - 130	
	Spiked Blank	o-Terphenyl	2010/08/27		107	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/08/27		79	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/08/27		79	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/08/27		79	%	60 - 130	
	Method Blank	o-Terphenyl	2010/08/27			102	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/08/27	<100			ug/L	
		F3 (C16-C34 Hydrocarbons)	2010/08/27	<100			ug/L	
		F4 (C34-C50 Hydrocarbons)	2010/08/27	<100			ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/08/27		NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/08/27		NC		%	50
F4 (C34-C50 Hydrocarbons)		2010/08/27		NC		%	50	
2249414 AAI	Matrix Spike	1,4-Difluorobenzene	2010/08/29		99	%	70 - 130	
		4-Bromofluorobenzene	2010/08/29		101	%	70 - 130	
		D10-Ethylbenzene	2010/08/29		102	%	70 - 130	
		D4-1,2-Dichloroethane	2010/08/29		104	%	70 - 130	
		Benzene	2010/08/29		101	%	70 - 130	
		Toluene	2010/08/29		110	%	70 - 130	
		Ethylbenzene	2010/08/29		116	%	70 - 130	
		o-Xylene	2010/08/29		123	%	70 - 130	
		p+m-Xylene	2010/08/29		117	%	70 - 130	
		F1 (C6-C10)	2010/08/29		100	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2010/08/29		101	%	70 - 130
			4-Bromofluorobenzene	2010/08/29		101	%	70 - 130
			D10-Ethylbenzene	2010/08/29		105	%	70 - 130
			D4-1,2-Dichloroethane	2010/08/29		102	%	70 - 130
	Benzene		2010/08/29		104	%	70 - 130	
	Toluene		2010/08/29		112	%	70 - 130	
	Ethylbenzene		2010/08/29		118	%	70 - 130	
	o-Xylene		2010/08/29		124	%	70 - 130	
	p+m-Xylene		2010/08/29		117	%	70 - 130	
	F1 (C6-C10)		2010/08/29		90	%	70 - 130	
	Method Blank	1,4-Difluorobenzene	2010/08/29		103	%	70 - 130	
		4-Bromofluorobenzene	2010/08/29		98	%	70 - 130	
		D10-Ethylbenzene	2010/08/29		109	%	70 - 130	
		D4-1,2-Dichloroethane	2010/08/29		101	%	70 - 130	
		Benzene	2010/08/29	<0.2			ug/L	
		Toluene	2010/08/29	<0.2			ug/L	
		Ethylbenzene	2010/08/29	<0.2			ug/L	
		o-Xylene	2010/08/29	<0.2			ug/L	
		p+m-Xylene	2010/08/29	<0.4			ug/L	
		Total Xylenes	2010/08/29	<0.4			ug/L	
	RPD	F1 (C6-C10)	2010/08/29		<100		ug/L	
		F1 (C6-C10) - BTEX	2010/08/29		<100		ug/L	
		Benzene	2010/08/29		NC		%	40
		Toluene	2010/08/29		NC		%	40
Ethylbenzene		2010/08/29		NC		%	40	
o-Xylene		2010/08/29		NC		%	40	
p+m-Xylene		2010/08/29		NC		%	40	
Total Xylenes		2010/08/29		NC		%	40	
F1 (C6-C10)		2010/08/29		NC		%	40	
F1 (C6-C10) - BTEX		2010/08/29		NC		%	40	

SNC-Lavalin Environment
Attention: Meghan Fitz-James
Client Project #: SO9125
P.O. #:
Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0B6586

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B0B6586

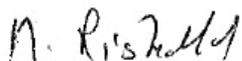
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



BRAD NEWMAN, Scientific Specialist



JEEVARAJ JEEVARATNAM, Senior Analyst



MEDHAT RISKALLAH, Manager, Hydrocarbon Department

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INVOICE INFORMATION		REPORT INFORMATION (if differs from invoice)		PROJECT INFORMATION		MAXXAM JOB NUMBER	
Company Name: #21644 SNC Lavalin Environment		Company Name:		Quotation #: Shell GESS		CHAIN OF CUSTODY # 00619685	
Contact Name: Sheri Schembri		Contact Name: Meghan Fitz-James		P.O. #:			
Address: 20 DeBaers Dr, Suite 200 Toronto, ON M3K 2B4		Address:		Project #: S09125			
Phone: (416) 635-5882 Fax: (416) 635-5353		Phone: Fax:		Project Name:			
Email: sheri.schembri@snc-lavalin.com		Email: meghan.fitz-james@snc-lavalin.com		Location: Oakville			
				Sampled By: HBench			

REGULATORY CRITERIA		ANALYSIS REQUESTED (Please be specific)				TURNAROUND TIME (TAT) REQUIRED	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form. <input type="checkbox"/> MISA <input checked="" type="checkbox"/> Reg. 153 2011 Sewer Use <input type="checkbox"/> PWQO <input type="checkbox"/> Table 1 Residential / Parkland <input type="checkbox"/> Sanitary <input checked="" type="checkbox"/> Table 2 Industrial / Commercial <input type="checkbox"/> Storm <input type="checkbox"/> Reg. 558 <input type="checkbox"/> Table 3 Medium / Fine Municipality: <input type="checkbox"/> Table 6 Coarse Other (specify): Report Criteria on C of A? <input type="checkbox"/>		Regulated Drinking Water? (Y/N) Metals Field Filtered? (Y/N) BTEX/EI - F4 BTEX ONLY				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS. Regular (Standard) TAT: <input checked="" type="checkbox"/> 5 to 7 Working Days Rush TAT: Rush Confirmation #: (call Lab for #) <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days <input type="checkbox"/> 3 days DATE Required: TIME Required:	

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.

Sample Identification	Date Sampled	Time Sampled	Matrix (GW, SW, Soil, etc.)	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	BTEX/EI - F4	BTEX ONLY	# of Cont.
BH-99	Aug. 25/10	4:15 pm	Water	N	-	X	X	5
Trip Blank	↓	6:00 pm	↓	N	-	X	X	3

Please note that contact your Proj

25-Aug-10 18:58
 RENATA SPENA

 B0B6586
 FW ENV-873

RELINQUISHED BY (Signature/Print) <i>HBench</i>	RECEIVED BY (Signature/Print) <i>ZS FANWANG</i>	Date Aug. 15/10	Time 5:45 pm	# JARS USED AND NOT SUBMITTED <i>0</i>	Laboratory Use Only Temperature (°C) on Receipt 16/17/18°C
		10/08/10	18:58		

***MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**

Your Project #: S09125
 Site: OAKVILLE
 Your C.O.C. #: 22997101, 229971-01-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2010/12/17

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0H8166

Received: 2010/12/09, 17:02

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2010/12/14	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2010/12/16	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	4	N/A	2010/12/16	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	4	2010/12/13	2010/12/14	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	4	N/A	2010/12/14	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2010/12/15	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/12/16	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

17 Dec 2010 14:42:37 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: RSpena@maxxam.ca
 Phone# (905) 817-5700 Ext:5818

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B0H8166
Report Date: 2010/12/17

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IC7431			IC7432		IC7433		
Sampling Date		2010/12/09 14:00			2010/12/09 13:15		2010/12/09 13:30		
COC Number		229971-01-01			229971-01-01		229971-01-01		
	Units	MW-402	RDL	QC Batch	MW-403	RDL	MW-404	RDL	QC Batch

Volatile Organics									
Benzene	ug/L	<2	2	2356840	<0.1	0.1	<0.5	0.5	2356855
Ethylbenzene	ug/L	<2	2	2356840	<0.1	0.1	<0.5	0.5	2356855
Methyl t-butyl ether (MTBE)	ug/L	390	4	2356840	4.6	0.2	53	1	2356855
Toluene	ug/L	<4	4	2356840	<0.2	0.2	<1	1	2356855
p+m-Xylene	ug/L	<2	2	2356840	<0.1	0.1	<0.5	0.5	2356855
o-Xylene	ug/L	<2	2	2356840	<0.1	0.1	<0.5	0.5	2356855
Xylene (Total)	ug/L	<2	2	2356840	<0.1	0.1	<0.5	0.5	2356855
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	93		2356840	93		92		2356855
D4-1,2-Dichloroethane	%	109		2356840	108		109		2356855
D8-Toluene	%	101		2356840	101		101		2356855

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B0H8166
 Report Date: 2010/12/17

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IC7434		
Sampling Date		2010/12/09 14:30		
COC Number		229971-01-01		
	Units	MW-405	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.1	0.1	2356855
Ethylbenzene	ug/L	<0.1	0.1	2356855
Methyl t-butyl ether (MTBE)	ug/L	13	0.2	2356855
Toluene	ug/L	<0.2	0.2	2356855
p+m-Xylene	ug/L	<0.1	0.1	2356855
o-Xylene	ug/L	<0.1	0.1	2356855
Xylene (Total)	ug/L	<0.1	0.1	2356855
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	93		2356855
D4-1,2-Dichloroethane	%	108		2356855
D8-Toluene	%	101		2356855

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H8166
 Report Date: 2010/12/17

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IC7431	IC7432	IC7433	IC7434		
Sampling Date		2010/12/09 14:00	2010/12/09 13:15	2010/12/09 13:30	2010/12/09 14:30		
COC Number		229971-01-01	229971-01-01	229971-01-01	229971-01-01		
	Units	MW-402	MW-403	MW-404	MW-405	RDL	QC Batch
BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<100	<100	<100	<100	100	2358007
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	2358007
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2357678
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2357678
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2357678
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2357678
F1 + F2	ug/L	<100	<100	<100	<100	100	2355146
F3 + F4	ug/L	<100	<100	<100	<100	100	2355147
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	105	104	105	99		2358007
4-Bromofluorobenzene	%	98	98	98	102		2358007
D10-Ethylbenzene	%	110	104	115	96		2358007
D4-1,2-Dichloroethane	%	104	103	103	104		2358007
o-Terphenyl	%	102	95	98	103		2357678
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B0H8166
Report Date: 2010/12/17

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

Package 1	2.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample IC7431-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample IC7433-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0H8166

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2356840 AAD	Matrix Spike	4-Bromofluorobenzene	2010/12/15		99	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/15		108	%	70 - 130		
		D8-Toluene	2010/12/15		102	%	70 - 130		
		Benzene	2010/12/15		112	%	70 - 130		
		Ethylbenzene	2010/12/15		108	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2010/12/15		121	%	70 - 130		
		Toluene	2010/12/15		110	%	70 - 130		
		p+m-Xylene	2010/12/15		110	%	70 - 130		
		o-Xylene	2010/12/15		112	%	70 - 130		
	Spiked Blank	4-Bromofluorobenzene	2010/12/15		98	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/15		108	%	70 - 130		
		D8-Toluene	2010/12/15		103	%	70 - 130		
		Benzene	2010/12/15		110	%	70 - 130		
		Ethylbenzene	2010/12/15		108	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2010/12/15		121	%	70 - 130		
		Toluene	2010/12/15		107	%	70 - 130		
		p+m-Xylene	2010/12/15		109	%	70 - 130		
		o-Xylene	2010/12/15		111	%	70 - 130		
	Method Blank	4-Bromofluorobenzene	2010/12/15		92	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/15		110	%	70 - 130		
		D8-Toluene	2010/12/15		100	%	70 - 130		
		Benzene	2010/12/15	<0.1		ug/L			
		Ethylbenzene	2010/12/15	<0.1		ug/L			
		Methyl t-butyl ether (MTBE)	2010/12/15	<0.2		ug/L			
		Toluene	2010/12/15	<0.2		ug/L			
		p+m-Xylene	2010/12/15	<0.1		ug/L			
		o-Xylene	2010/12/15	<0.1		ug/L			
		Xylene (Total)	2010/12/15	<0.1		ug/L			
		RPD	Methyl t-butyl ether (MTBE)	2010/12/15	NC		%	40	
		2356855 AAD	Matrix Spike	4-Bromofluorobenzene	2010/12/15		98	%	70 - 130
				D4-1,2-Dichloroethane	2010/12/15		103	%	70 - 130
				D8-Toluene	2010/12/15		101	%	70 - 130
				Benzene	2010/12/15		107	%	70 - 130
Ethylbenzene	2010/12/15				105	%	70 - 130		
Methyl t-butyl ether (MTBE)	2010/12/15				122	%	70 - 130		
Toluene	2010/12/15				105	%	70 - 130		
p+m-Xylene	2010/12/15				106	%	70 - 130		
o-Xylene	2010/12/15				109	%	70 - 130		
Spiked Blank	4-Bromofluorobenzene		2010/12/15		98	%	70 - 130		
	D4-1,2-Dichloroethane		2010/12/15		102	%	70 - 130		
	D8-Toluene		2010/12/15		102	%	70 - 130		
	Benzene		2010/12/15		104	%	70 - 130		
	Ethylbenzene		2010/12/15		103	%	70 - 130		
	Methyl t-butyl ether (MTBE)		2010/12/15		115	%	70 - 130		
	Toluene		2010/12/15		102	%	70 - 130		
	p+m-Xylene		2010/12/15		103	%	70 - 130		
	o-Xylene		2010/12/15		105	%	70 - 130		
Method Blank	4-Bromofluorobenzene		2010/12/15		95	%	70 - 130		
	D4-1,2-Dichloroethane		2010/12/15		101	%	70 - 130		
	D8-Toluene		2010/12/15		100	%	70 - 130		
	Benzene		2010/12/15	<0.1		ug/L			
	Ethylbenzene		2010/12/15	<0.1		ug/L			
	Methyl t-butyl ether (MTBE)		2010/12/15	<0.2		ug/L			
	Toluene		2010/12/15	<0.2		ug/L			
	p+m-Xylene		2010/12/15	<0.1		ug/L			

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0H8166

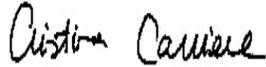
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2356855 AAD	Method Blank	o-Xylene	2010/12/15	<0.1		ug/L	
		Xylene (Total)	2010/12/15	<0.1		ug/L	
2357678 ZZ	Matrix Spike	o-Terphenyl	2010/12/14		107	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/12/14		82	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/12/14		82	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/12/14		82	%	60 - 130
	Spiked Blank	o-Terphenyl	2010/12/13		113	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/12/13		89	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/12/13		89	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/12/13		89	%	60 - 130
	Method Blank	o-Terphenyl	2010/12/13		107	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/12/13	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2010/12/13	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2010/12/13	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/12/14	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/12/14	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2010/12/14	NC		%	50
2358007 GBA	Matrix Spike	1,4-Difluorobenzene	2010/12/14		102	%	70 - 130
		4-Bromofluorobenzene	2010/12/14		100	%	70 - 130
		D10-Ethylbenzene	2010/12/14		113	%	70 - 130
		D4-1,2-Dichloroethane	2010/12/14		101	%	70 - 130
		F1 (C6-C10)	2010/12/14		77	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2010/12/14		101	%	70 - 130
		4-Bromofluorobenzene	2010/12/14		103	%	70 - 130
		D10-Ethylbenzene	2010/12/14		99	%	70 - 130
		D4-1,2-Dichloroethane	2010/12/14		101	%	70 - 130
		F1 (C6-C10)	2010/12/14		98	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2010/12/14		104	%	70 - 130
		4-Bromofluorobenzene	2010/12/14		98	%	70 - 130
		D10-Ethylbenzene	2010/12/14		104	%	70 - 130
		D4-1,2-Dichloroethane	2010/12/14		102	%	70 - 130
		F1 (C6-C10)	2010/12/14	<100		ug/L	
		F1 (C6-C10) - BTEX	2010/12/14	<100		ug/L	
	RPD	F1 (C6-C10)	2010/12/14	NC		%	40
		F1 (C6-C10) - BTEX	2010/12/14	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

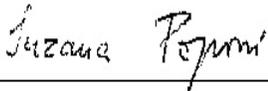
Validation Signature Page

Maxxam Job #: B0H8166

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



CRISTINA CARRIERE, Scientific Services



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Sheri Schembri
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3K 2B4
 Phone: (416)635-5882 Fax: (416)635-5353
 Email: sheri.schembri@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name: Meghan Fitz-James
 Address:
 Phone:
 Fax:
 Email: meghan.fitz-james@snclavalin.com

PROJECT INFORMATION:

Quotation #: A93414
 P.O. #:
 Project #: S09125
 Project Name:
 Site #: Oakville
 Sampled By: H. Bench

REGULATORY CRITERIA:

MISA Reg 153/04
 PWQO Table 1 Residential/Parkland
 Reg. 558 Table 2 Industrial/Commercial
 Table 3 Medium/Fine
 Table 6 Coarse
 Other (specify): _____ Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific)

Regulated Drinking Water? (Y/N)	
Metals Field Filtered? (Y/N)	
LAB-83 MTBE	
M19 BTEX/F1-F4 NOT INCL. F4G	

TURNAROUND

PLEASE PROVIDE ADVANCE NOTICE

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days
 Please note: Standard TAT for certain projects - contact your Project Manager

Job Specific Rush TAT (if applicable):
 Date Required: _____

Rush Confirmation Number: _____

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	LAB-83 MTBE	M19 BTEX/F1-F4 NOT INCL. F4G												
1	MW-402	Dec. 9/10	2:00pm	G-W	N	-	X	X												8 - high pers - trace sedi
2	MW-403		1:15pm		N	-	X	X												8 - trace sedi
3	MW-404		1:30pm		N	-	X	X												8 - trace sedi
4	MW-405		2:30pm		N	-	X	X												8 - trace sedi
5																				
6																				
7																				
8																				
9																				
10																				

*RELINQUISHED BY: (Signature/Print) H. Bench / H. Bench	Date: (YY/MM/DD) 10/12/09	Time: 3:55pm	RECEIVED BY: (Signature/Print) Shruti Patel	Date: (YY/MM/DD) 2010/12/09	Time: 17:02	# Jars Used and Not Submitted C	Time Sensitive <input type="checkbox"/>	Temperature 2/2
------------------------------------------------------------	------------------------------	-----------------	------------------------------------------------	--------------------------------	----------------	---------------------------------------	--------------------------------------------	--------------------

Your Project #: S09125
Site: OAKVILLE
Your C.O.C. #: 22997102, 229971-02-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3K 2B4

Report Date: 2011/01/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0H8168

Received: 2010/12/09, 17:02

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2010/12/14	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2010/12/16	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2010/12/13	2010/12/13	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2010/12/14	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2010/12/14	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

11 Jan 2011 12:21:04 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
Email: RSpena@maxxam.ca
Phone# (905) 817-5700 Ext:5818

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Page 1 of 8

Maxxam Job #: B0H8168
 Report Date: 2011/01/11

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IC7458		
Sampling Date		2010/12/09 15:30		
COC Number		229971-02-01		
	Units	BH-99	RDL	QC Batch

Volatiles Organics				
Benzene	ug/L	<0.1	0.1	2355233
Ethylbenzene	ug/L	<0.1	0.1	2355233
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	2355233
Toluene	ug/L	<0.2	0.2	2355233
p+m-Xylene	ug/L	<0.1	0.1	2355233
o-Xylene	ug/L	<0.1	0.1	2355233
Xylene (Total)	ug/L	<0.1	0.1	2355233
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	96		2355233
D4-1,2-Dichloroethane	%	109		2355233
D8-Toluene	%	100		2355233

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H8168
Report Date: 2011/01/11

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IC7458	IC7459		
Sampling Date		2010/12/09 15:30	2010/12/09 15:40		
COC Number		229971-02-01	229971-02-01		
	Units	BH-99	TRIP BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L		<0.2	0.2	2358007
Toluene	ug/L		<0.2	0.2	2358007
Ethylbenzene	ug/L		<0.2	0.2	2358007
o-Xylene	ug/L		<0.2	0.2	2358007
p+m-Xylene	ug/L		<0.4	0.4	2358007
Total Xylenes	ug/L		<0.4	0.4	2358007
F1 (C6-C10)	ug/L	<100	<100	100	2358007
F1 (C6-C10) - BTEX	ug/L	<100	<100	100	2358007
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100		100	2357678
F3 (C16-C34 Hydrocarbons)	ug/L	<100		100	2357678
F4 (C34-C50 Hydrocarbons)	ug/L	<100		100	2357678
Reached Baseline at C50	ug/L	Yes			2357678
F1 + F2	ug/L	<100		100	2355213
F3 + F4	ug/L	<100		100	2355214
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	104	105		2358007
4-Bromofluorobenzene	%	98	97		2358007
D10-Ethylbenzene	%	108	109		2358007
D4-1,2-Dichloroethane	%	101	102		2358007
o-Terphenyl	%	111			2357678
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B0H8168
Report Date: 2011/01/11

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

Package 1	2.3°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0H8168

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2355233 AZ	Matrix Spike	4-Bromofluorobenzene	2010/12/14		103	%	70 - 130	
		D4-1,2-Dichloroethane	2010/12/14		104	%	70 - 130	
		D8-Toluene	2010/12/14		104	%	70 - 130	
		Benzene	2010/12/14		112	%	70 - 130	
		Ethylbenzene	2010/12/14		109	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2010/12/14		108	%	70 - 130	
		Toluene	2010/12/14		110	%	70 - 130	
		p+m-Xylene	2010/12/14		108	%	70 - 130	
		o-Xylene	2010/12/14		111	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2010/12/14		94	%	70 - 130	
		D4-1,2-Dichloroethane	2010/12/14		101	%	70 - 130	
		D8-Toluene	2010/12/14		105	%	70 - 130	
		Benzene	2010/12/14		110	%	70 - 130	
		Ethylbenzene	2010/12/14		106	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2010/12/14		106	%	70 - 130	
		Toluene	2010/12/14		112	%	70 - 130	
		p+m-Xylene	2010/12/14		99	%	70 - 130	
		o-Xylene	2010/12/14		97	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2010/12/14		92	%	70 - 130	
		D4-1,2-Dichloroethane	2010/12/14		113	%	70 - 130	
		D8-Toluene	2010/12/14		103	%	70 - 130	
		Benzene	2010/12/14	<0.1		ug/L		
		Ethylbenzene	2010/12/14	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2010/12/14	<0.2		ug/L		
		Toluene	2010/12/14	<0.2		ug/L		
		p+m-Xylene	2010/12/14	<0.1		ug/L		
		o-Xylene	2010/12/14	<0.1		ug/L		
		Xylene (Total)	2010/12/14	<0.1		ug/L		
		RPD	Benzene	2010/12/14	NC		%	40
			Ethylbenzene	2010/12/14	NC		%	40
			Toluene	2010/12/14	NC		%	40
			p+m-Xylene	2010/12/14	NC		%	40
			o-Xylene	2010/12/14	NC		%	40
2357678 ZZ	Matrix Spike	o-Terphenyl	2010/12/14		107	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/12/14		82	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/12/14		82	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/12/14		82	%	60 - 130	
	Spiked Blank	o-Terphenyl	2010/12/13		113	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/12/13		89	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2010/12/13		89	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2010/12/13		89	%	60 - 130	
	Method Blank	o-Terphenyl	2010/12/13		107	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2010/12/13	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2010/12/13	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2010/12/13	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2010/12/14	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2010/12/14	NC		%	50	
		F4 (C34-C50 Hydrocarbons)	2010/12/14	NC		%	50	
2358007 GBA	Matrix Spike	1,4-Difluorobenzene	2010/12/14		102	%	70 - 130	
		4-Bromofluorobenzene	2010/12/14		100	%	70 - 130	
		D10-Ethylbenzene	2010/12/14		113	%	70 - 130	
		D4-1,2-Dichloroethane	2010/12/14		101	%	70 - 130	
		Benzene	2010/12/14		102	%	70 - 130	
		Toluene	2010/12/14		112	%	70 - 130	
		Ethylbenzene	2010/12/14		118	%	70 - 130	

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0H8168

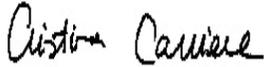
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2358007	GBA	Matrix Spike	o-Xylene	2010/12/14		123	%	70 - 130
			p+m-Xylene	2010/12/14		121	%	70 - 130
			F1 (C6-C10)	2010/12/14		77	%	70 - 130
		Spiked Blank	1,4-Difluorobenzene	2010/12/14		101	%	70 - 130
			4-Bromofluorobenzene	2010/12/14		103	%	70 - 130
			D10-Ethylbenzene	2010/12/14		99	%	70 - 130
			D4-1,2-Dichloroethane	2010/12/14		101	%	70 - 130
			Benzene	2010/12/14		91	%	70 - 130
			Toluene	2010/12/14		100	%	70 - 130
			Ethylbenzene	2010/12/14		105	%	70 - 130
			o-Xylene	2010/12/14		112	%	70 - 130
		Method Blank	p+m-Xylene	2010/12/14		107	%	70 - 130
			F1 (C6-C10)	2010/12/14		98	%	70 - 130
			1,4-Difluorobenzene	2010/12/14		104	%	70 - 130
			4-Bromofluorobenzene	2010/12/14		98	%	70 - 130
			D10-Ethylbenzene	2010/12/14		104	%	70 - 130
			D4-1,2-Dichloroethane	2010/12/14		102	%	70 - 130
			Benzene	2010/12/14	<0.2		ug/L	
			Toluene	2010/12/14	<0.2		ug/L	
			Ethylbenzene	2010/12/14	<0.2		ug/L	
			o-Xylene	2010/12/14	<0.2		ug/L	
			p+m-Xylene	2010/12/14	<0.4		ug/L	
			Total Xylenes	2010/12/14	<0.4		ug/L	
		RPD	F1 (C6-C10)	2010/12/14	<100		ug/L	
			F1 (C6-C10) - BTEX	2010/12/14	<100		ug/L	
			Benzene	2010/12/14	NC		%	40
			Toluene	2010/12/14	NC		%	40
			Ethylbenzene	2010/12/14	NC		%	40
			o-Xylene	2010/12/14	NC		%	40
			p+m-Xylene	2010/12/14	NC		%	40
			Total Xylenes	2010/12/14	NC		%	40
			F1 (C6-C10)	2010/12/14	NC		%	40
		F1 (C6-C10) - BTEX	2010/12/14	NC		%	40	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

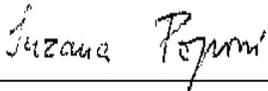
Validation Signature Page

Maxxam Job #: B0H8168

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



CRISTINA CARRIERE, Scientific Services



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: S09125
 Site: OAKVILLE
 Your C.O.C. #: 22997105, 229971-05-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3K 2B4

Report Date: 2011/01/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B0H8971

Received: 2010/12/10, 14:49

Sample Matrix: Water
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2010/12/16	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	6	N/A	2010/12/16	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	6	2010/12/15	2010/12/15	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	6	N/A	2010/12/16	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	5	N/A	2010/12/16	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2010/12/17	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Renata Spena

11 Jan 2011 12:29:50 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

RENATA SPENA, Project Manager
 Email: RSpena@maxxam.ca
 Phone# (905) 817-5700 Ext:5818

=====
 Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B0H8971
 Report Date: 2011/01/11

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		ID1404		ID1405		ID1406	ID1406		
Sampling Date		2010/12/10 11:00		2010/12/10 11:00		2010/12/09 15:10	2010/12/09 15:10		
COC Number		229971-05-01		229971-05-01		229971-05-01	229971-05-01		
	Units	MW-401	RDL	BH-98	RDL	MW-501	MW-501 Lab-Dup	RDL	QC Batch

Volatiles Organics									
Benzene	ug/L	2.3	0.5	1.9	0.3	<0.1	<0.1	0.1	2358245
Ethylbenzene	ug/L	0.6	0.5	0.6	0.3	<0.1	<0.1	0.1	2358245
Methyl t-butyl ether (MTBE)	ug/L	<4 (1)	4	<2 (1)	2	9.4	8.9	0.2	2358245
Toluene	ug/L	<1	1	<0.5	0.5	<0.2	<0.2	0.2	2358245
p+m-Xylene	ug/L	1.4	0.5	1.3	0.3	<0.1	<0.1	0.1	2358245
o-Xylene	ug/L	<0.5	0.5	0.4	0.3	<0.1	<0.1	0.1	2358245
Xylene (Total)	ug/L	1.4	0.5	1.7	0.3	<0.1	<0.1	0.1	2358245
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	92		91		95	95		2358245
D4-1,2-Dichloroethane	%	108		109		104	104		2358245
D8-Toluene	%	103		107		100	101		2358245

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) The detection limit was raised due to interference from a coeluting non-target compound.

Maxxam Job #: B0H8971
 Report Date: 2011/01/11

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		ID1407	ID1408		ID1409		
Sampling Date		2010/12/10 10:45	2010/12/10 11:15		2010/12/10 10:15		
COC Number		229971-05-01	229971-05-01		229971-05-01		
	Units	MW-502	MW-503	RDL	MW-504	RDL	QC Batch

Volatile Organics							
Benzene	ug/L	<0.1	<0.1	0.1	<0.5	0.5	2358245
Ethylbenzene	ug/L	<0.1	<0.1	0.1	<0.5	0.5	2358245
Methyl t-butyl ether (MTBE)	ug/L	9.5	39	0.2	69	1	2358245
Toluene	ug/L	<0.2	<0.2	0.2	<1	1	2358245
p+m-Xylene	ug/L	<0.1	<0.1	0.1	<0.5	0.5	2358245
o-Xylene	ug/L	<0.1	<0.1	0.1	<0.5	0.5	2358245
Xylene (Total)	ug/L	<0.1	<0.1	0.1	<0.5	0.5	2358245
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	94	93		92		2358245
D4-1,2-Dichloroethane	%	103	109		110		2358245
D8-Toluene	%	101	101		102		2358245

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H8971
 Report Date: 2011/01/11

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		ID1404	ID1405	ID1406	ID1407		
Sampling Date		2010/12/10 11:00	2010/12/10 11:00	2010/12/09 15:10	2010/12/10 10:45		
COC Number		229971-05-01	229971-05-01	229971-05-01	229971-05-01		
	Units	MW-401	BH-98	MW-501	MW-502	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	150	110	<100	<100	100	2358833
F1 (C6-C10) - BTEX	ug/L	150	110	<100	<100	100	2358833
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2359309
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2359309
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2359309
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2359309
F1 + F2	ug/L	150	110	<100	<100	100	2357193
F3 + F4	ug/L	<100	<100	<100	<100	100	2357194
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	91	91	98	99		2358833
4-Bromofluorobenzene	%	103	102	97	98		2358833
D10-Ethylbenzene	%	92	101	101	104		2358833
D4-1,2-Dichloroethane	%	97	99	109	110		2358833
o-Terphenyl	%	109	108	109	107		2359309

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B0H8971
 Report Date: 2011/01/11

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		ID1408	ID1409		
Sampling Date		2010/12/10 11:15	2010/12/10 10:15		
COC Number		229971-05-01	229971-05-01		
	Units	MW-503	MW-504	RDL	QC Batch
BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<100	<100	100	2358833
F1 (C6-C10) - BTEX	ug/L	<100	<100	100	2358833
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2359309
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	100	2359309
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	100	2359309
Reached Baseline at C50	ug/L	Yes	Yes		2359309
F1 + F2	ug/L	<100	<100	100	2357193
F3 + F4	ug/L	<100	<100	100	2357194
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	99	99		2358833
4-Bromofluorobenzene	%	99	97		2358833
D10-Ethylbenzene	%	101	105		2358833
D4-1,2-Dichloroethane	%	112	110		2358833
o-Terphenyl	%	112	109		2359309
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B0H8971
Report Date: 2011/01/11

SNC-Lavalin Environment
Client Project #: S09125
Project name: OAKVILLE

Package 1	2.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

VOC Analysis: Due to a level of petroleum hydrocarbon compounds beyond the appropriate range, some samples required dilution. The detection limits were adjusted accordingly.

F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample ID1408-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample ID1409-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB0H8971

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2358245 AAD	Matrix Spike	4-Bromofluorobenzene	2010/12/16		98	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/16		103	%	70 - 130		
		D8-Toluene	2010/12/16		101	%	70 - 130		
		Benzene	2010/12/16		112	%	70 - 130		
		Ethylbenzene	2010/12/16		109	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2010/12/16		121	%	70 - 130		
		Toluene	2010/12/16		108	%	70 - 130		
		p+m-Xylene	2010/12/16		112	%	70 - 130		
		o-Xylene	2010/12/16		112	%	70 - 130		
		Spiked Blank	4-Bromofluorobenzene	2010/12/16		99	%	70 - 130	
	D4-1,2-Dichloroethane		2010/12/16		101	%	70 - 130		
	D8-Toluene		2010/12/16		101	%	70 - 130		
	Benzene		2010/12/16		105	%	70 - 130		
	Ethylbenzene		2010/12/16		104	%	70 - 130		
	Methyl t-butyl ether (MTBE)		2010/12/16		118	%	70 - 130		
	Toluene		2010/12/16		104	%	70 - 130		
	p+m-Xylene		2010/12/16		105	%	70 - 130		
	o-Xylene		2010/12/16		106	%	70 - 130		
	Method Blank		4-Bromofluorobenzene	2010/12/16		96	%	70 - 130	
		D4-1,2-Dichloroethane	2010/12/16		99	%	70 - 130		
		D8-Toluene	2010/12/16		100	%	70 - 130		
		Benzene	2010/12/16	<0.1		ug/L			
		Ethylbenzene	2010/12/16	<0.1		ug/L			
		Methyl t-butyl ether (MTBE)	2010/12/16	<0.2		ug/L			
		Toluene	2010/12/16	<0.2		ug/L			
		p+m-Xylene	2010/12/16	<0.1		ug/L			
		o-Xylene	2010/12/16	<0.1		ug/L			
		Xylene (Total)	2010/12/16	<0.1		ug/L			
		RPD [ID1406-03]	Benzene	2010/12/16	NC		%	40	
			Ethylbenzene	2010/12/16	NC		%	40	
			Methyl t-butyl ether (MTBE)	2010/12/16	4.7		%	40	
			Toluene	2010/12/16	NC		%	40	
			p+m-Xylene	2010/12/16	NC		%	40	
	o-Xylene		2010/12/16	NC		%	40		
	2358833 DAN	Matrix Spike	1,4-Difluorobenzene	2010/12/16		87	%	70 - 130	
4-Bromofluorobenzene			2010/12/16		102	%	70 - 130		
D10-Ethylbenzene			2010/12/16		118	%	70 - 130		
D4-1,2-Dichloroethane			2010/12/16		95	%	70 - 130		
F1 (C6-C10)			2010/12/16		90	%	70 - 130		
Spiked Blank		1,4-Difluorobenzene	2010/12/16		86	%	70 - 130		
		4-Bromofluorobenzene	2010/12/16		105	%	70 - 130		
		D10-Ethylbenzene	2010/12/16		97	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/16		90	%	70 - 130		
		F1 (C6-C10)	2010/12/16		101	%	70 - 130		
Method Blank		1,4-Difluorobenzene	2010/12/16		97	%	70 - 130		
		4-Bromofluorobenzene	2010/12/16		100	%	70 - 130		
		D10-Ethylbenzene	2010/12/16		102	%	70 - 130		
		D4-1,2-Dichloroethane	2010/12/16		103	%	70 - 130		
		F1 (C6-C10)	2010/12/16	<100		ug/L			
RPD		F1 (C6-C10) - BTEX	2010/12/16	<100		ug/L			
		F1 (C6-C10)	2010/12/16	NC		%	40		
		F1 (C6-C10) - BTEX	2010/12/16	NC		%	40		
		2359309 JKA	Matrix Spike	o-Terphenyl	2010/12/16		107	%	30 - 130
				F2 (C10-C16 Hydrocarbons)	2010/12/16		94	%	60 - 130

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB0H8971

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2359309 JKA	Matrix Spike	F3 (C16-C34 Hydrocarbons)	2010/12/16		94	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/12/16		94	%	60 - 130
	Spiked Blank	o-Terphenyl	2010/12/16		109	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/12/16		96	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/12/16		96	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/12/16		96	%	60 - 130
	Method Blank	o-Terphenyl	2010/12/15		108	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/12/15	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2010/12/15	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2010/12/15	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/12/16	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/12/16	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2010/12/16	NC		%	50

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

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

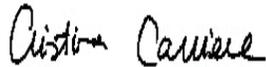
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B0H8971

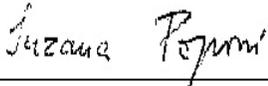
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Sheri Schembri
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3K 2B4
 Phone: (416)635-5882 Fax: (416)635-5353
 Email: sheri.schembri@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name: Meghan Fitz-James
 Address:
 Phone:
 Email: meghan.fitz-james@snclavalin.com

PROJECT INFO:

Quotation #: A93414
 P.O. #:
 Project #: S09125
 Project Name:
 Site #: Oakville
 Sampled By: H. Bench

BOH8971
 ESS ENV-642
 CHAIN OF CUSTODY

REGULATORY CRITERIA:

MISA Reg. 153/04
 PWQO Table 1 Residential/Parkland
 Reg. 558 Table 2 Industrial/Commercial
 Table 3 Medium/Fine
 Table 6 Coarse
 Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific):

Regulated Drinking Water? (Y/N)
 Metals Field Filtered? (Y/N)
 LAB-83 MTBE
 M19 BTEX/F1-F4 NOT INCLU. F4G

TURNAROUND

PLEASE PROVIDE ADVANCE NOTICE
 Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most samples
 Please note: Standard TAT for certain samples may vary
 Job Specific Rush TAT (if applicable)
 Date Required:
 Rush Confirmation Number:

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	LAB-83 MTBE	M19 BTEX/F1-F4 NOT INCLU. F4G	# of Bottles	Notes
1	MW-401	Dec. 10/10	11:00am	GW	N	-	X	X	8	-trace sediment
2	BH-898 HB	↓	11:00am		N	-	X	X	8	-trace sediment
3	MW-501	Dec. 9/10	3:10pm		N	-	X	X	8	-heavy sediment
4	MW-502	Dec. 10/10	10:45am		N	-	X	X	8	
5	MW-503	↓	11:15am		N	-	X	X	8	
6	MW-504	↓	10:15am		N	-	X	X	8	-trace sediment
7										
8										
9										
10										

*RELINQUISHED BY: (Signature/Print) H. Bench	Date: (YY/MM/DD) 10/12/10	Time: 12:00pm	RECEIVED BY: (Signature/Print) Daisy King	Date: (YY/MM/DD) 2010/12/10	Time: 14:49	# Jars Used and Not Submitted 8	Time Sensitive <input type="checkbox"/>	Temperature 2/11
-------------------------------------------------	------------------------------	------------------	----------------------------------------------	--------------------------------	----------------	---------------------------------------	--------------------------------------------	---------------------

Your Project #: S09125
Site: 3005 DUNDAS ST W, OAKVILLE
Your C.O.C. #: 23969903, 239699-03-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3K 2B4

Report Date: 2011/03/03

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B125558

Received: 2011/02/25, 14:24

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/03/01	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2011/03/02	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/03/01	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Jennifer Rimmer

04 Mar 2011 09:16:43 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B125558
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IT0979		
Sampling Date		2011/02/25 10:30		
COC Number		239699-03-01		
	Units	BH-99	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.1	0.1	2416501
Ethylbenzene	ug/L	<0.1	0.1	2416501
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	2416501
Toluene	ug/L	<0.2	0.2	2416501
p+m-Xylene	ug/L	<0.1	0.1	2416501
o-Xylene	ug/L	<0.1	0.1	2416501
Xylene (Total)	ug/L	<0.1	0.1	2416501
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	105		2416501
D4-1,2-Dichloroethane	%	104		2416501
D8-Toluene	%	93		2416501

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B125558
Report Date: 2011/03/03

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IT0979	IT0980		
Sampling Date		2011/02/25 10:30	2011/02/25 13:00		
COC Number		239699-03-01	239699-03-01		
	Units	BH-99	TRIP BLANK	RDL	QC Batch
BTEX & F1 Hydrocarbons					
Benzene	ug/L		<0.2	0.2	2416858
Toluene	ug/L		<0.2	0.2	2416858
Ethylbenzene	ug/L		<0.2	0.2	2416858
o-Xylene	ug/L		<0.2	0.2	2416858
p+m-Xylene	ug/L		<0.4	0.4	2416858
Total Xylenes	ug/L		<0.4	0.4	2416858
F1 (C6-C10)	ug/L	<100		100	2416858
F1 (C6-C10) - BTEX	ug/L	<100		100	2416858
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100		100	2418545
F3 (C16-C34 Hydrocarbons)	ug/L	<100		100	2418545
F4 (C34-C50 Hydrocarbons)	ug/L	<100		100	2418545
Reached Baseline at C50	ug/L	Yes			2418545
F1 + F2	ug/L	<100		100	2414998
F3 + F4	ug/L	<100		100	2414999
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	107	104		2416858
4-Bromofluorobenzene	%	96	95		2416858
D10-Ethylbenzene	%	88	90		2416858
D4-1,2-Dichloroethane	%	97	99		2416858
o-Terphenyl	%	112			2418545
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B125558
Report Date: 2011/03/03

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST W, OAKVILLE

Package 1	0.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB125558

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2416501 MAL	Matrix Spike	4-Bromofluorobenzene	2011/03/01		105	%	70 - 130		
		D4-1,2-Dichloroethane	2011/03/01		96	%	70 - 130		
		D8-Toluene	2011/03/01		96	%	70 - 130		
		Benzene	2011/03/01		97	%	70 - 130		
		Ethylbenzene	2011/03/01		97	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2011/03/01		81	%	70 - 130		
		Toluene	2011/03/01		95	%	70 - 130		
		p+m-Xylene	2011/03/01		95	%	70 - 130		
		o-Xylene	2011/03/01		92	%	70 - 130		
		Spiked Blank	4-Bromofluorobenzene	2011/03/01		106	%	70 - 130	
			D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
			D8-Toluene	2011/03/01		94	%	70 - 130	
	Benzene		2011/03/01		100	%	70 - 130		
	Ethylbenzene		2011/03/01		96	%	70 - 130		
	Methyl t-butyl ether (MTBE)		2011/03/01		96	%	70 - 130		
	Toluene		2011/03/01		94	%	70 - 130		
	p+m-Xylene		2011/03/01		94	%	70 - 130		
	o-Xylene		2011/03/01		94	%	70 - 130		
	Method Blank		4-Bromofluorobenzene	2011/03/01		104	%	70 - 130	
			D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
			D8-Toluene	2011/03/01		94	%	70 - 130	
		Benzene	2011/03/01	<0.1		ug/L			
		Ethylbenzene	2011/03/01	<0.1		ug/L			
		Methyl t-butyl ether (MTBE)	2011/03/01	<0.2		ug/L			
		Toluene	2011/03/01	<0.2		ug/L			
		p+m-Xylene	2011/03/01	<0.1		ug/L			
		o-Xylene	2011/03/01	<0.1		ug/L			
		Xylene (Total)	2011/03/01	<0.1		ug/L			
		RPD	Benzene	2011/03/01	NC		%	40	
			Ethylbenzene	2011/03/01	NC		%	40	
	Methyl t-butyl ether (MTBE)		2011/03/01	NC		%	40		
	Toluene		2011/03/01	NC		%	40		
	p+m-Xylene		2011/03/01	NC		%	40		
	o-Xylene		2011/03/01	NC		%	40		
	Xylene (Total)		2011/03/01	NC		%	40		
	2416858 DAN		Matrix Spike	1,4-Difluorobenzene	2011/03/02		103	%	70 - 130
				4-Bromofluorobenzene	2011/03/02		98	%	70 - 130
				D10-Ethylbenzene	2011/03/02		93	%	70 - 130
				D4-1,2-Dichloroethane	2011/03/02		100	%	70 - 130
				Benzene	2011/03/02		89	%	70 - 130
		Toluene		2011/03/02		97	%	70 - 130	
		Ethylbenzene		2011/03/02		108	%	70 - 130	
		o-Xylene		2011/03/02		110	%	70 - 130	
		p+m-Xylene		2011/03/02		107	%	70 - 130	
		F1 (C6-C10)		2011/03/02		79	%	70 - 130	
Spiked Blank		1,4-Difluorobenzene		2011/03/01		104	%	70 - 130	
		4-Bromofluorobenzene		2011/03/01		96	%	70 - 130	
		D10-Ethylbenzene	2011/03/01		96	%	70 - 130		
		D4-1,2-Dichloroethane	2011/03/01		99	%	70 - 130		
		Benzene	2011/03/01		92	%	70 - 130		
		Toluene	2011/03/01		99	%	70 - 130		
		Ethylbenzene	2011/03/01		109	%	70 - 130		
		o-Xylene	2011/03/01		111	%	70 - 130		
		p+m-Xylene	2011/03/01		108	%	70 - 130		
		F1 (C6-C10)	2011/03/01		100	%	70 - 130		

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB125558

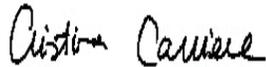
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2416858 DAN	Method Blank	1,4-Difluorobenzene	2011/03/01		104	%	70 - 130	
		4-Bromofluorobenzene	2011/03/01		95	%	70 - 130	
		D10-Ethylbenzene	2011/03/01		89	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		97	%	70 - 130	
		Benzene	2011/03/01	<0.2		ug/L		
		Toluene	2011/03/01	<0.2		ug/L		
		Ethylbenzene	2011/03/01	<0.2		ug/L		
		o-Xylene	2011/03/01	<0.2		ug/L		
		p+m-Xylene	2011/03/01	<0.4		ug/L		
		Total Xylenes	2011/03/01	<0.4		ug/L		
		F1 (C6-C10)	2011/03/01	<100		ug/L		
		F1 (C6-C10) - BTEX	2011/03/01	<100		ug/L		
		RPD	F1 (C6-C10)	2011/03/02	NC		%	40
			F1 (C6-C10) - BTEX	2011/03/02	NC		%	40
2418545 BLZ	Matrix Spike [IT0979-01]	o-Terphenyl	2011/03/03		111	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/03		91	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/03/03		91	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/03/03		91	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/03/03		115	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/03		99	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/03/03		99	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/03/03		99	%	60 - 130	
	Method Blank	o-Terphenyl	2011/03/03		112	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/03	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/03/03	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/03/03	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2011/03/03	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2011/03/03	NC		%	50	
F4 (C34-C50 Hydrocarbons)		2011/03/03	NC		%	50		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B125558

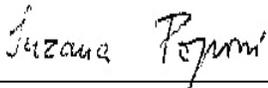
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

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INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Meghan Fitz-James
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3K 2B4
 Phone: (416)635-5882 Fax (416)635-5353
 Email: meghan.fitz-james@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name:
 Address:
 Phone:
 Email:

PROJECT INFORMATION:

Quotation #: ~~B10288~~ Shell GESS
 P.O. #:
 Project #: S09125
 Project Name: 3005 Dundas St. W., Oakville
 Site #:
 Sampled By: H. Bench



REGULATORY CRITERIA:

MISA Reg. 153/04
 PWQO Table 1 Residential/Parkland
 Table 2 Industrial/Commercial
 Reg. 558 Table 3 Medium/Fine
 Table 6 Coarse
 Municipality: _____
 Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific):

TURNAROUND

PLEASE PROVIDE ADVANCE NOTICE

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most samples
 Please note: Standard TAT for certain samples - contact your Project Manager
 Job Specific Rush TAT (if applies) _____
 Date Required: _____
 Rush Confirmation Number: _____

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	MTBE	F1-F4/BTEX	BTEX only
—	BH-99	Feb. 25/11	10:30am	water	N	-	X	X	
—	TRIP BLANK	↓	1:00pm	↓	N	-		X	

of Bottles
8
3

*RELINQUISHED BY: (Signature/Print) H. Bench	Date: (YY/MM/DD) 11/02/24	Time: 1:25 pm	RECEIVED BY: (Signature/Print) Jimmy Liu	Date: (YY/MM/DD) 2011/02/25	Time: 14:24	# Jars Used and Not Submitted 0
-------------------------------------------------	------------------------------	------------------	---------------------------------------------	--------------------------------	----------------	------------------------------------

Time Sensitive

Temperature (°C) 0/0

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN EXTENDED TAT DELAYS.
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: S09125
Site: 3005 DUNDAS ST.W., OAKVILLE
Your C.O.C. #: 23969902, 239699-02-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3K 2B4

Report Date: 2011/03/03

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B125577

Received: 2011/02/25, 14:24

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2011/03/01	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	4	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	4	2011/03/02	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	4	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	2	N/A	2011/03/01	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	2	N/A	2011/03/03	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Jennifer Rimmer

04 Mar 2011 09:15:31 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
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Total cover pages: 1

Maxxam Job #: B125577
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST.W., OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IT1045	IT1046	IT1047		IT1048		
Sampling Date		2011/02/25 12:00	2011/02/25 11:00	2011/02/25 11:15		2011/02/25 12:15		
COC Number		239699-02-01	239699-02-01	239699-02-01		239699-02-01		
	Units	MW-501	MW-502	MW-503	RDL	MW-504	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2416501
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2416501
Methyl t-butyl ether (MTBE)	ug/L	1.1	36	19	0.2	65	1	2416501
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	<1	1	2416501
p+m-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2416501
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2416501
Xylene (Total)	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2416501
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	106	97	105		98		2416501
D4-1,2-Dichloroethane	%	104	108	104		109		2416501
D8-Toluene	%	94	101	92		101		2416501

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B125577
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST.W., OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IT1045	IT1046	IT1047	IT1048		
Sampling Date		2011/02/25 12:00	2011/02/25 11:00	2011/02/25 11:15	2011/02/25 12:15		
COC Number		239699-02-01	239699-02-01	239699-02-01	239699-02-01		
	Units	MW-501	MW-502	MW-503	MW-504	RDL	QC Batch
BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<100	<100	<100	<100	100	2416702
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	2416702
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2418545
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2418545
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2418545
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2418545
F1 + F2	ug/L	<100	<100	<100	<100	100	2414998
F3 + F4	ug/L	<100	<100	<100	<100	100	2414999
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	104	103	105	101		2416702
4-Bromofluorobenzene	%	104	103	100	98		2416702
D10-Ethylbenzene	%	111	109	113	98		2416702
D4-1,2-Dichloroethane	%	113	113	113	111		2416702
o-Terphenyl	%	109	109	110	111		2418545
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B125577
Report Date: 2011/03/03

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST.W., OAKVILLE

Package 1	0.0°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample IT1048-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST.W., OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB125577

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2416501 MAL	Matrix Spike	4-Bromofluorobenzene	2011/03/01		105	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		96	%	70 - 130	
		D8-Toluene	2011/03/01		96	%	70 - 130	
		Benzene	2011/03/01		97	%	70 - 130	
		Ethylbenzene	2011/03/01		97	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/03/01		81	%	70 - 130	
		Toluene	2011/03/01		95	%	70 - 130	
		p+m-Xylene	2011/03/01		95	%	70 - 130	
		o-Xylene	2011/03/01		92	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2011/03/01		106	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
		D8-Toluene	2011/03/01		94	%	70 - 130	
		Benzene	2011/03/01		100	%	70 - 130	
		Ethylbenzene	2011/03/01		96	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/03/01		96	%	70 - 130	
		Toluene	2011/03/01		94	%	70 - 130	
		p+m-Xylene	2011/03/01		94	%	70 - 130	
		o-Xylene	2011/03/01		94	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2011/03/01		104	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
		D8-Toluene	2011/03/01		94	%	70 - 130	
		Benzene	2011/03/01	<0.1		ug/L		
		Ethylbenzene	2011/03/01	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2011/03/01	<0.2		ug/L		
		Toluene	2011/03/01	<0.2		ug/L		
		p+m-Xylene	2011/03/01	<0.1		ug/L		
		o-Xylene	2011/03/01	<0.1		ug/L		
		Xylene (Total)	2011/03/01	<0.1		ug/L		
		RPD	Benzene	2011/03/01	NC		%	40
			Ethylbenzene	2011/03/01	NC		%	40
			Methyl t-butyl ether (MTBE)	2011/03/01	NC		%	40
			Toluene	2011/03/01	NC		%	40
			p+m-Xylene	2011/03/01	NC		%	40
o-Xylene	2011/03/01		NC		%	40		
2416702 GRU	Matrix Spike	1,4-Difluorobenzene	2011/02/28		100	%	70 - 130	
		4-Bromofluorobenzene	2011/02/28		104	%	70 - 130	
		D10-Ethylbenzene	2011/02/28		111	%	70 - 130	
	Spiked Blank	D4-1,2-Dichloroethane	2011/02/28		109	%	70 - 130	
		F1 (C6-C10)	2011/02/28		84	%	70 - 130	
		1,4-Difluorobenzene	2011/02/28		101	%	70 - 130	
		4-Bromofluorobenzene	2011/02/28		102	%	70 - 130	
		D10-Ethylbenzene	2011/02/28		108	%	70 - 130	
		D4-1,2-Dichloroethane	2011/02/28		105	%	70 - 130	
	Method Blank	F1 (C6-C10)	2011/02/28		92	%	70 - 130	
		1,4-Difluorobenzene	2011/02/28		104	%	70 - 130	
		4-Bromofluorobenzene	2011/02/28		103	%	70 - 130	
		D10-Ethylbenzene	2011/02/28		105	%	70 - 130	
		D4-1,2-Dichloroethane	2011/02/28		107	%	70 - 130	
		F1 (C6-C10)	2011/02/28	<100		ug/L		
RPD	F1 (C6-C10) - BTEX	2011/02/28	<100		ug/L			
	F1 (C6-C10)	2011/02/28	NC		%	40		
	F1 (C6-C10) - BTEX	2011/02/28	NC		%	40		
2418545 BLZ	Matrix Spike	o-Terphenyl	2011/03/03		111	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/03		91	%	60 - 130	

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST.W., OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB125577

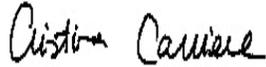
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2418545 BLZ	Matrix Spike	F3 (C16-C34 Hydrocarbons)	2011/03/03		91	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2011/03/03		91	%	60 - 130
	Spiked Blank	o-Terphenyl	2011/03/03		115	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/03/03		99	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2011/03/03		99	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2011/03/03		99	%	60 - 130
	Method Blank	o-Terphenyl	2011/03/03		112	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/03/03	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2011/03/03	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2011/03/03	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2011/03/03	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2011/03/03	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2011/03/03	NC		%	50

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B125577

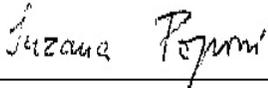
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

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INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#21644 SNC-Lavalin Environment	Company Name:		Quotation #:	B10288
Contact Name:	Meghan Fitz-James	Contact Name:		P.O. #:	
Address:	20 DeBoers Drive Suite 200 Toronto ON M3K 2B4	Address:		Project #:	S09125
Phone:	(416)635-5882 Fax: (416)635-5353	Phone:		Project Name:	3005 Dundas St. W., Oakville
Email:	meghan.fitz-james@snclavalin.com	Email:		Site #:	
				Sampled By:	H. Bench

REGULATORY CRITERIA:	SPECIAL INSTRUCTIONS	ANALYSIS REQUESTED (Please be specific):	TURNAROUND
<input type="checkbox"/> MISA <input checked="" type="checkbox"/> Reg. 153/04 <input type="checkbox"/> PWQO <input type="checkbox"/> Reg. 558 Other (specify): _____ Report Criteria on C of A? <input type="checkbox"/>	Sewer Use: <input type="checkbox"/> Sanitary, <input type="checkbox"/> Storm, <input type="checkbox"/> Combined Residential/Parkland, Industrial/Commercial, Medium/Fine, Coarse Municipality: _____ 2004 <input type="checkbox"/> 2011 <input checked="" type="checkbox"/>	25-Feb-11 14:24 RENATA SPENA B125577 SEL ENV-904	Regular (Standard) TAT: (will be applied if Rush TAT is not selected) Standard TAT = 5-7 Working Days Please note: Standard TAT for Rush TAT is 2-3 days - contact your Project Manager for details. Job Specific Rush TAT (if applicable): _____ Date Required: _____ Rush Confirmation Number: _____

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	MTBE	F1-F4/BTEX	# of Bottles	Notes
1	MW-501	Feb. 25/11	12:00 pm	GW	N	-	X	X	8	- some S
2	MW-502		11:00 am		N	-	X	X	8	
3	MW-503		11:15 am		N	-	X	X	8	
4	MW-504		12:15 pm		N	-	X	X	8	
5										
6										
7										
8										
9										
10										

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted	Time Sensitive	Temperature
<i>H. Bench</i>	11/02/24	1:20pm	<i>JMM</i>	2011/02/25	14:24	0	<input type="checkbox"/>	0/

Your Project #: S09125
Site: 3005 DUNDAS ST. W, OAKVILLE
Your C.O.C. #: 23969901, 239699-01-01

Attention: Meghan Fitz-James

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3K 2B4

Report Date: 2011/03/03

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B125654

Received: 2011/02/25, 16:02

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2011/03/01	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	6	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	6	2011/02/28	2011/03/01	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	6	N/A	2011/03/03	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2011/03/01	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	3	N/A	2011/03/03	CAM SOP-00226	EPA 8260 modified

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Jennifer Rimmer

04 Mar 2011 11:33:48 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Job #: B125654
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		IT1357	IT1358		IT1359	IT1360		
Sampling Date		2011/02/25 10:45	2011/02/25 10:45		2011/02/25 11:30	2011/02/25 12:30		
COC Number		239699-01-01	239699-01-01		239699-01-01	239699-01-01		
	Units	MW-401	BH-98	RDL	MW-402	MW-403	RDL	QC Batch

Volatile Organics								
Methyl t-butyl ether (MTBE)	ug/L	<0.4	<0.4	0.4	9.3	0.8	0.2	2416501
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	102	102		106	105		2416501
D4-1,2-Dichloroethane	%	96	93		104	106		2416501
D8-Toluene	%	99	99		92	93		2416501

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		IT1361	IT1362		
Sampling Date		2011/02/25 12:45	2011/02/25 11:45		
COC Number		239699-01-01	239699-01-01		
	Units	MW-404	MW-405	RDL	QC Batch

Volatile Organics					
Methyl t-butyl ether (MTBE)	ug/L	36	4.9	0.2	2416501
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	108	106		2416501
D4-1,2-Dichloroethane	%	111	102		2416501
D8-Toluene	%	90	93		2416501

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B125654
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IT1357	IT1358	IT1359	IT1360		
Sampling Date		2011/02/25 10:45	2011/02/25 10:45	2011/02/25 11:30	2011/02/25 12:30		
COC Number		239699-01-01	239699-01-01	239699-01-01	239699-01-01		
	Units	MW-401	BH-98	MW-402	MW-403	RDL	QC Batch

BTEX & F1 Hydrocarbons							
Benzene	ug/L	<0.2	0.5	<0.2	<0.2	0.2	2417028
Toluene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	2417028
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	<0.2	0.2	2417028
o-Xylene	ug/L	<0.2	0.4	<0.2	<0.2	0.2	2417028
p+m-Xylene	ug/L	0.9	1.2	<0.4	<0.4	0.4	2417028
Total Xylenes	ug/L	0.9	1.7	<0.4	<0.4	0.4	2417028
F1 (C6-C10)	ug/L	180	260	<100	<100	100	2417028
F1 (C6-C10) - BTEX	ug/L	180	260	<100	<100	100	2417028
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	800	520	<100	<100	100	2416678
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2416678
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2416678
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2416678
F1 + F2	ug/L	980	790	<100	<100	100	2414998
F3 + F4	ug/L	<100	<100	<100	<100	100	2414999
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	96	91	103	100		2417028
4-Bromofluorobenzene	%	100	100	98	96		2417028
D10-Ethylbenzene	%	98	80	96	102		2417028
D4-1,2-Dichloroethane	%	95	95	103	102		2417028
o-Terphenyl	%	128	128	118	126		2416678

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B125654
 Report Date: 2011/03/03

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		IT1361	IT1362		
Sampling Date		2011/02/25 12:45	2011/02/25 11:45		
COC Number		239699-01-01	239699-01-01		
	Units	MW-404	MW-405	RDL	QC Batch

BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.2	<0.2	0.2	2417028
Toluene	ug/L	<0.2	<0.2	0.2	2417028
Ethylbenzene	ug/L	<0.2	<0.2	0.2	2417028
o-Xylene	ug/L	<0.2	<0.2	0.2	2417028
p+m-Xylene	ug/L	<0.4	<0.4	0.4	2417028
Total Xylenes	ug/L	<0.4	<0.4	0.4	2417028
F1 (C6-C10)	ug/L	<100	<100	100	2417028
F1 (C6-C10) - BTEX	ug/L	<100	<100	100	2417028
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2416678
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	100	2416678
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	100	2416678
Reached Baseline at C50	ug/L	Yes	Yes		2416678
F1 + F2	ug/L	<100	<100	100	2414998
F3 + F4	ug/L	<100	<100	100	2414999
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	99	100		2417028
4-Bromofluorobenzene	%	98	96		2417028
D10-Ethylbenzene	%	93	87		2417028
D4-1,2-Dichloroethane	%	102	101		2417028
o-Terphenyl	%	104	129		2416678
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B125654
Report Date: 2011/03/03

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W, OAKVILLE

Package 1	0.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

VOC Analysis: Due to a level of petroleum hydrocarbon compounds beyond the appropriate range, some samples required dilution. The detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB125654

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2416501 MAL	Matrix Spike	4-Bromofluorobenzene	2011/03/01		105	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		96	%	70 - 130	
		D8-Toluene	2011/03/01		96	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/03/01		81	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2011/03/01		106	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
		D8-Toluene	2011/03/01		94	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/03/01		96	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2011/03/01		104	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		101	%	70 - 130	
		D8-Toluene	2011/03/01		94	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/03/01	<0.2		ug/L		
	RPD	Methyl t-butyl ether (MTBE)	2011/03/01	NC		%	40	
	2416678 BWW	Matrix Spike	o-Terphenyl	2011/03/01		129	%	30 - 130
F2 (C10-C16 Hydrocarbons)			2011/03/01		102	%	60 - 130	
F3 (C16-C34 Hydrocarbons)			2011/03/01		102	%	60 - 130	
F4 (C34-C50 Hydrocarbons)			2011/03/01		102	%	60 - 130	
Spiked Blank		o-Terphenyl	2011/03/01		125	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/01		96	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/03/01		96	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/03/01		96	%	60 - 130	
Method Blank		o-Terphenyl	2011/03/01		123	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/03/01	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/03/01	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/03/01	<100		ug/L		
RPD		F2 (C10-C16 Hydrocarbons)	2011/03/01	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2011/03/01	NC		%	50	
	F4 (C34-C50 Hydrocarbons)	2011/03/01	NC		%	50		
2417028 MSB	Matrix Spike	1,4-Difluorobenzene	2011/03/01		96	%	70 - 130	
		4-Bromofluorobenzene	2011/03/01		97	%	70 - 130	
		D10-Ethylbenzene	2011/03/01		94	%	70 - 130	
		D4-1,2-Dichloroethane	2011/03/01		91	%	70 - 130	
		Benzene	2011/03/01		94	%	70 - 130	
		Toluene	2011/03/01		110	%	70 - 130	
		Ethylbenzene	2011/03/01		102	%	70 - 130	
		o-Xylene	2011/03/01		112	%	70 - 130	
		p+m-Xylene	2011/03/01		111	%	70 - 130	
		F1 (C6-C10)	2011/03/01		81	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2011/03/01		99	%	70 - 130
			4-Bromofluorobenzene	2011/03/01		100	%	70 - 130
			D10-Ethylbenzene	2011/03/01		97	%	70 - 130
			D4-1,2-Dichloroethane	2011/03/01		89	%	70 - 130
	Benzene		2011/03/01		98	%	70 - 130	
	Toluene		2011/03/01		109	%	70 - 130	
	Ethylbenzene		2011/03/01		106	%	70 - 130	
	o-Xylene		2011/03/01		119	%	70 - 130	
	p+m-Xylene		2011/03/01		115	%	70 - 130	
	F1 (C6-C10)		2011/03/01		87	%	70 - 130	
	Method Blank		1,4-Difluorobenzene	2011/03/01		96	%	70 - 130
			4-Bromofluorobenzene	2011/03/01		96	%	70 - 130
			D10-Ethylbenzene	2011/03/01		91	%	70 - 130
			D4-1,2-Dichloroethane	2011/03/01		91	%	70 - 130
		Benzene	2011/03/01	<0.2		ug/L		
		Toluene	2011/03/01	<0.2		ug/L		
		Ethylbenzene	2011/03/01	<0.2		ug/L		

SNC-Lavalin Environment
 Attention: Meghan Fitz-James
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W, OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB125654

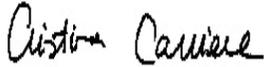
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2417028 MSB	Method Blank	o-Xylene	2011/03/01	<0.2		ug/L	
		p+m-Xylene	2011/03/01	<0.4		ug/L	
		Total Xylenes	2011/03/01	<0.4		ug/L	
		F1 (C6-C10)	2011/03/01	<100		ug/L	
		F1 (C6-C10) - BTEX	2011/03/01	<100		ug/L	
	RPD	Benzene	2011/03/01	NC		%	40
		Toluene	2011/03/01	NC		%	40
		Ethylbenzene	2011/03/01	NC		%	40
		o-Xylene	2011/03/01	NC		%	40
		p+m-Xylene	2011/03/01	NC		%	40
		Total Xylenes	2011/03/01	NC		%	40
		F1 (C6-C10)	2011/03/01	NC		%	40
		F1 (C6-C10) - BTEX	2011/03/01	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B125654

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



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: S09125
 Site: 3005 DUNDAS ST. W.OAKVILLE.
 Your C.O.C. #: 27016603, 270166-03-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/07

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B196155

Received: 2011/06/29, 15:58

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/07/06	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2011/07/07	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2011/07/02	2011/07/05	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2011/07/05	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/07/06	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site: 3005 DUNDAS ST. W.OAKVILLE.
Your C.O.C. #: 27016603, 270166-03-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/07

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Jennifer Rimmer

08 Jul 2011 15:05:58 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 10

Maxxam Job #: B196155
 Report Date: 2011/07/07

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W.OAKVILLE.

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KA0302		
Sampling Date		2011/06/29 02:00		
COC Number		270166-03-01		
	Units	BH -99	RDL	QC Batch

Volatile Organics				
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	2538679
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	104		2538679
D4-1,2-Dichloroethane	%	100		2538679
D8-Toluene	%	88		2538679
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B196155
 Report Date: 2011/07/07

 SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W.OAKVILLE.

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KA0301	KA0302	KA0302		
Sampling Date		2011/06/29 03:00	2011/06/29 02:00	2011/06/29 02:00		
COC Number		270166-03-01	270166-03-01	270166-03-01		
	Units	TRIP BLANK	BH -99	BH -99 Lab-Dup	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L	<0.2	<0.2	<0.2	0.2	2540319
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	2540319
Ethylbenzene	ug/L	<0.2	<0.2	<0.2	0.2	2540319
o-Xylene	ug/L	<0.2	<0.2	<0.2	0.2	2540319
p+m-Xylene	ug/L	<0.4	<0.4	<0.4	0.4	2540319
Total Xylenes	ug/L	<0.4	<0.4	<0.4	0.4	2540319
F1 (C6-C10)	ug/L	<100	<100	<100	100	2540319
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	100	2540319
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L		<100		100	2538393
F3 (C16-C34 Hydrocarbons)	ug/L		<100		100	2538393
F4 (C34-C50 Hydrocarbons)	ug/L		<100		100	2538393
Reached Baseline at C50	ug/L		Yes			2538393
F1 + F2	ug/L		<100		100	2536816
F3 + F4	ug/L		<100		100	2536817
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	103	100	100		2540319
4-Bromofluorobenzene	%	102	100	101		2540319
D10-Ethylbenzene	%	85	85	86		2540319
D4-1,2-Dichloroethane	%	105	105	105		2540319
o-Terphenyl	%		91			2538393
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch						

Maxxam Job #: B196155
Report Date: 2011/07/07

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W.OAKVILLE.

Test Summary

Maxxam ID KA0301
Sample ID TRIP BLANK
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/06	ANCA GANEA

Maxxam ID KA0302
Sample ID BH -99
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/06	ANCA GANEA
F1 + F2 Calculation		2536816	N/A	2011/07/07	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2538393	2011/07/02	2011/07/05	ZHIYUE (FRANK) ZHU
F3 + F4 Calculation		2536817	N/A	2011/07/05	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam ID KA0302 Dup
Sample ID BH -99
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/06	ANCA GANEA

Maxxam Job #: B196155
Report Date: 2011/07/07

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W.OAKVILLE.

Package 1	8.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W.OAKVILLE.

Quality Assurance Report
 Maxxam Job Number: MB196155

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2538393 ZZ	Matrix Spike [KA0302-01]	o-Terphenyl	2011/07/05		91	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/05		95	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/05		98	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/05		96	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/07/05		90	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/05		93	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/05		96	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/05		95	%	60 - 130	
	Method Blank	o-Terphenyl	2011/07/05			93	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/07/05	<100			ug/L	
		F3 (C16-C34 Hydrocarbons)	2011/07/05	<100			ug/L	
		F4 (C34-C50 Hydrocarbons)	2011/07/05	<100			ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2011/07/05	NC			%	50
		F3 (C16-C34 Hydrocarbons)	2011/07/05	NC			%	50
		F4 (C34-C50 Hydrocarbons)	2011/07/05	NC			%	50
2538679 SLM	Matrix Spike [KA0302-03]	4-Bromofluorobenzene	2011/07/06		106	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		97	%	70 - 130	
		D8-Toluene	2011/07/06		91	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/06		101	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2011/07/06		107	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		98	%	70 - 130	
		D8-Toluene	2011/07/06		91	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/06		105	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2011/07/06		105	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		101	%	70 - 130	
		D8-Toluene	2011/07/06		89	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/06	<0.2			ug/L	
	RPD	Methyl t-butyl ether (MTBE)	2011/07/06	0.6		%	30	
	2540319 AGA	Matrix Spike [KA0302-02]	1,4-Difluorobenzene	2011/07/06		101	%	70 - 130
			4-Bromofluorobenzene	2011/07/06		101	%	70 - 130
			D10-Ethylbenzene	2011/07/06		86	%	70 - 130
D4-1,2-Dichloroethane			2011/07/06		106	%	70 - 130	
Spiked Blank		Benzene	2011/07/06		80	%	70 - 130	
		Toluene	2011/07/06		86	%	70 - 130	
		Ethylbenzene	2011/07/06		87	%	70 - 130	
		o-Xylene	2011/07/06		90	%	70 - 130	
		p+m-Xylene	2011/07/06		87	%	70 - 130	
		F1 (C6-C10)	2011/07/06		115	%	70 - 130	
		1,4-Difluorobenzene	2011/07/06		102	%	70 - 130	
		4-Bromofluorobenzene	2011/07/06		100	%	70 - 130	
		D10-Ethylbenzene	2011/07/06		87	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		105	%	70 - 130	
		Benzene	2011/07/06		82	%	70 - 130	
		Toluene	2011/07/06		87	%	70 - 130	
		Ethylbenzene	2011/07/06		88	%	70 - 130	
		o-Xylene	2011/07/06		90	%	70 - 130	
		p+m-Xylene	2011/07/06		88	%	70 - 130	
		F1 (C6-C10)	2011/07/06		112	%	70 - 130	
Method Blank		1,4-Difluorobenzene	2011/07/06		100	%	70 - 130	
		4-Bromofluorobenzene	2011/07/06		101	%	70 - 130	
		D10-Ethylbenzene	2011/07/06		84	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		105	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W.OAKVILLE.

Quality Assurance Report (Continued)

Maxxam Job Number: MB196155

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2540319 AGA	Method Blank	Benzene	2011/07/06	<0.2		ug/L	
		Toluene	2011/07/06	<0.2		ug/L	
		Ethylbenzene	2011/07/06	<0.2		ug/L	
		o-Xylene	2011/07/06	<0.2		ug/L	
		p+m-Xylene	2011/07/06	<0.4		ug/L	
		Total Xylenes	2011/07/06	<0.4		ug/L	
		F1 (C6-C10)	2011/07/06	<100		ug/L	
		F1 (C6-C10) - BTEX	2011/07/06	<100		ug/L	
	RPD [KA0302-02]	Benzene	2011/07/06	NC		%	40
		Toluene	2011/07/06	NC		%	40
		Ethylbenzene	2011/07/06	NC		%	40
		o-Xylene	2011/07/06	NC		%	40
		p+m-Xylene	2011/07/06	NC		%	40
		Total Xylenes	2011/07/06	NC		%	40
		F1 (C6-C10)	2011/07/06	NC		%	40
		F1 (C6-C10) - BTEX	2011/07/06	NC		%	40

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

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

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

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B196155

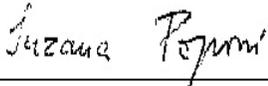
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



BRAD NEWMAN, Scientific Specialist



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

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Your Project #: S09125
 Site: 3005 DUNDAS ST. W. OAKVILLE
 Your C.O.C. #: 27016601, 270166-01-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/07

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B196169

Received: 2011/06/29, 15:58

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/07/06	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/07/07	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	4	N/A	2011/07/07	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	4	2011/07/02	2011/07/05	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	4	N/A	2011/07/05	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	4	N/A	2011/07/06	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

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* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

./2

Your Project #: S09125
Site: 3005 DUNDAS ST. W. OAKVILLE
Your C.O.C. #: 27016601, 270166-01-01

Attention: Akruți Atawala
SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/07

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Jennifer Rimmer

08 Jul 2011 15:06:27 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
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Total cover pages: 2

Maxxam Job #: B196169
 Report Date: 2011/07/07

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W. OAKVILLE
 Sampler Initials: HB

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KA0365	KA0366	KA0366		KA0367		
Sampling Date		2011/06/29 09:00	2011/06/29 10:00	2011/06/29 10:00		2011/06/29 11:00		
COC Number		270166-01-01	270166-01-01	270166-01-01		270166-01-01		
	Units	MW -501	MW -502	MW -502 Lab-Dup	RDL	MW -503	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2538679
Ethylbenzene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2538679
Methyl t-butyl ether (MTBE)	ug/L	1.2	4.3	4.4	0.2	89	1	2538679
Toluene	ug/L	<0.2	<0.2	<0.2	0.2	<1	1	2538679
p+m-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2538679
o-Xylene	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2538679
Xylene (Total)	ug/L	<0.1	<0.1	<0.1	0.1	<0.5	0.5	2538679
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	106	105	105		108		2538679
D4-1,2-Dichloroethane	%	102	102	101		107		2538679
D8-Toluene	%	90	88	87		88		2538679

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B196169
 Report Date: 2011/07/07

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W. OAKVILLE
 Sampler Initials: HB

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KA0368		
Sampling Date		2011/06/29 11:30		
COC Number		270166-01-01		
	Units	MW -504	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.1	0.1	2538679
Ethylbenzene	ug/L	<0.1	0.1	2538679
Methyl t-butyl ether (MTBE)	ug/L	34	0.2	2538679
Toluene	ug/L	<0.2	0.2	2538679
p+m-Xylene	ug/L	<0.1	0.1	2538679
o-Xylene	ug/L	<0.1	0.1	2538679
Xylene (Total)	ug/L	<0.1	0.1	2538679
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	106		2538679
D4-1,2-Dichloroethane	%	104		2538679
D8-Toluene	%	88		2538679

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B196169
Report Date: 2011/07/07

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W. OAKVILLE
Sampler Initials: HB

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KA0365	KA0366	KA0367	KA0368		
Sampling Date		2011/06/29 09:00	2011/06/29 10:00	2011/06/29 11:00	2011/06/29 11:30		
COC Number		270166-01-01	270166-01-01	270166-01-01	270166-01-01		
	Units	MW -501	MW -502	MW -503	MW -504	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<100	<100	<100	<100	100	2540319
F1 (C6-C10) - BTEX	ug/L	<100	<100	<100	<100	100	2540319
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2538393
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2538393
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2538393
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2538393
F1 + F2	ug/L	<100	<100	<100	<100	100	2536816
F3 + F4	ug/L	<100	<100	<100	<100	100	2536817
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	98	100	100	99		2540319
4-Bromofluorobenzene	%	99	99	101	100		2540319
D10-Ethylbenzene	%	86	89	88	83		2540319
D4-1,2-Dichloroethane	%	103	103	104	103		2540319
o-Terphenyl	%	93	91	90	89		2538393

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: B196169
Report Date: 2011/07/07

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W. OAKVILLE
Sampler Initials: HB

Test Summary

Maxxam ID KA0365
Sample ID MW -501
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/06	ANCA GANEA
F1 + F2 Calculation		2536816	N/A	2011/07/07	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2538393	2011/07/02	2011/07/05	ZHIYUE (FRANK) ZHU
F3 + F4 Calculation		2536817	N/A	2011/07/05	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam ID KA0366
Sample ID MW -502
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/06	ANCA GANEA
F1 + F2 Calculation		2536816	N/A	2011/07/07	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2538393	2011/07/02	2011/07/05	ZHIYUE (FRANK) ZHU
F3 + F4 Calculation		2536817	N/A	2011/07/05	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam ID KA0366 Dup
Sample ID MW -502
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam ID KA0367
Sample ID MW -503
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/07	ANCA GANEA
F1 + F2 Calculation		2536816	N/A	2011/07/07	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2538393	2011/07/02	2011/07/05	ZHIYUE (FRANK) ZHU
F3 + F4 Calculation		2536817	N/A	2011/07/05	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam ID KA0368
Sample ID MW -504
Matrix Water
Collected 2011/06/29
Shipped
Received 2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2540319	N/A	2011/07/07	ANCA GANEA
F1 + F2 Calculation		2536816	N/A	2011/07/07	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2538393	2011/07/02	2011/07/05	ZHIYUE (FRANK) ZHU
F3 + F4 Calculation		2536817	N/A	2011/07/05	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2538679	N/A	2011/07/06	SARAH LAM

Maxxam Job #: B196169
Report Date: 2011/07/07

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W. OAKVILLE
Sampler Initials: HB

Package 1	8.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample KA0367-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W. OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB196169

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2538393 ZZ	Matrix Spike	o-Terphenyl	2011/07/05		91	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/05		95	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/05		98	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/05		96	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/07/05		90	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/05		93	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/05		96	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/05		95	%	60 - 130	
	Method Blank	o-Terphenyl	2011/07/05			93	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/07/05	<100			ug/L	
		F3 (C16-C34 Hydrocarbons)	2011/07/05	<100			ug/L	
		F4 (C34-C50 Hydrocarbons)	2011/07/05	<100			ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2011/07/05		NC		%	50
		F3 (C16-C34 Hydrocarbons)	2011/07/05		NC		%	50
		F4 (C34-C50 Hydrocarbons)	2011/07/05		NC		%	50
2538679 SLM	Matrix Spike	4-Bromofluorobenzene	2011/07/06		106	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/06		97	%	70 - 130	
		D8-Toluene	2011/07/06		91	%	70 - 130	
		Benzene	2011/07/06		101	%	70 - 130	
		Ethylbenzene	2011/07/06		87	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/06		101	%	70 - 130	
		Toluene	2011/07/06		86	%	70 - 130	
		p+m-Xylene	2011/07/06		86	%	70 - 130	
		o-Xylene	2011/07/06		87	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2011/07/06		107	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/06		98	%	70 - 130
			D8-Toluene	2011/07/06		91	%	70 - 130
	Benzene		2011/07/06		100	%	70 - 130	
	Ethylbenzene		2011/07/06		85	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2011/07/06		105	%	70 - 130	
	Toluene		2011/07/06		85	%	70 - 130	
	p+m-Xylene		2011/07/06		85	%	70 - 130	
	o-Xylene		2011/07/06		86	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2011/07/06		105	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/06		101	%	70 - 130
			D8-Toluene	2011/07/06		89	%	70 - 130
		Benzene	2011/07/06	<0.1			ug/L	
		Ethylbenzene	2011/07/06	<0.1			ug/L	
		Methyl t-butyl ether (MTBE)	2011/07/06	<0.2			ug/L	
		Toluene	2011/07/06	<0.2			ug/L	
		p+m-Xylene	2011/07/06	<0.1			ug/L	
		o-Xylene	2011/07/06	<0.1			ug/L	
	RPD [KA0366-03]	Xylene (Total)	2011/07/06		<0.1		ug/L	
		Benzene	2011/07/06		NC		%	30
		Ethylbenzene	2011/07/06		NC		%	30
		Methyl t-butyl ether (MTBE)	2011/07/06		0.6		%	30
		Toluene	2011/07/06		NC		%	30
		p+m-Xylene	2011/07/06		NC		%	30
o-Xylene		2011/07/06		NC		%	30	
Xylene (Total)		2011/07/06		NC		%	30	
2540319 AGA		Matrix Spike	1,4-Difluorobenzene	2011/07/06		101	%	70 - 130
	4-Bromofluorobenzene		2011/07/06		101	%	70 - 130	
	D10-Ethylbenzene		2011/07/06		86	%	70 - 130	
	D4-1,2-Dichloroethane		2011/07/06		106	%	70 - 130	
	F1 (C6-C10)		2011/07/06		115	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W. OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB196169

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2540319 AGA	Spiked Blank	1,4-Difluorobenzene	2011/07/06		102	%	70 - 130
		4-Bromofluorobenzene	2011/07/06		100	%	70 - 130
		D10-Ethylbenzene	2011/07/06		87	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/06		105	%	70 - 130
		F1 (C6-C10)	2011/07/06		112	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2011/07/06		100	%	70 - 130
		4-Bromofluorobenzene	2011/07/06		101	%	70 - 130
		D10-Ethylbenzene	2011/07/06		84	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/06		105	%	70 - 130
		F1 (C6-C10)	2011/07/06	<100		ug/L	
		F1 (C6-C10) - BTEX	2011/07/06	<100		ug/L	
	RPD	F1 (C6-C10)	2011/07/06	NC		%	40
		F1 (C6-C10) - BTEX	2011/07/06	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

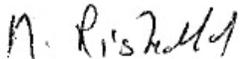
Validation Signature Page

Maxxam Job #: B196169

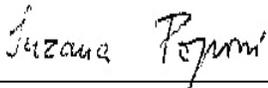
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



BRAD NEWMAN, Scientific Specialist

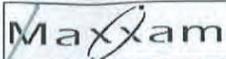


MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analyt
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8

29-Jun-11 15:58

CHAIN OF CUSTODY RECORD

JENNIFER RIMMER

www.maxxam.ca

INVOICE INFORMATION:

Company Name: #2432 SNC-Lavalin Environment
Contact Name: Akruiti Atawala
Address: 20 DeBoers Drive Suite 200
Toronto ON M3J 0H1
Phone: (416)635-5882 Fax: (416)635-5353
Email: akruiti.atawala@snclavalin.com

Company Name: JENNIFER RIMMER
Contact Name: B196169
Address: VPA ENV-960
Phone: Fax:

PROJECT INFORMATION:

Quotation #: B04714 Shell GESS
P.O. #:
Project #: S09125
Project Name: 3005 Dundas St W., OAKVILLE
Site #: S09125
Sampled By: LA/HB

REGULATORY CRITERIA:

MISA Reg. 153/04 Sewer Use Sanitary Storm Combined

PWQO Table 1 Residential/Parkland
 Table 2 Industrial/Commercial
 Reg. 558 Table 3 Medium/Fine
 Table 4 Coarse

Other (specify) _____ Report Criteria on C of A? 2004 2011

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific):

Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4	BTEX	MTBE
---------------------------------	------------------------------	-----------	------	------

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4	BTEX	MTBE	# of Bottles
1	MW-501	June 29/11	9am	GW	N	X	X	X		8
2	MW-502		10am	WT	N	X	X	X		8
3	MW-503		11am	WT	N	X	X	X		8
4	MW-504		1:30a	WT	N	X	X	X		8
5				WT						
6				WT						
7				WT						
8				WT						
9				WT						
10				WT						

*RELINQUISHED BY: (Signature/Print) *H. W. / Akruiti Atawala* Date: (YY/MM/DD) 29/06/11 Time: 3:25p

RECEIVED BY: (Signature/Print) *Ashli Datta* Date: (YY/MM/DD) 29/06/11 Time: 15:58

Jars Used and Not Submitted Time Sensitive Temperature *8/5*

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY WILL RESULT IN ANALYTICAL TAT DELAYS. Page 11 of 11

Your Project #: S09125
 Site: 3005 DUNDAS ST. W, OAKVILLE
 Your C.O.C. #: 27016602, 270166-02-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/15

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B196241
Received: 2011/06/29, 15:41

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/07/11	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

./2

Your Project #: S09125
Site: 3005 DUNDAS ST. W, OAKVILLE
Your C.O.C. #: 27016602, 270166-02-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/15

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

15 Jul 2011 16:40:00 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 8

Maxxam Job #: B196241
 Report Date: 2011/07/15

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W, OAKVILLE
 Sampler Initials: LA

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KA0812		
Sampling Date		2011/06/29 13:10		
COC Number		270166-02-01		
	Units	MW-401	RDL	QC Batch

BTEX & F1 Hydrocarbons				
Benzene	ug/L	8.1	0.20	2546394
Toluene	ug/L	0.28	0.20	2546394
Ethylbenzene	ug/L	0.42	0.20	2546394
o-Xylene	ug/L	0.23	0.20	2546394
p+m-Xylene	ug/L	1.4	0.40	2546394
Total Xylenes	ug/L	1.6	0.40	2546394
F1 (C6-C10)	ug/L	<100	100	2546394
F1 (C6-C10) - BTEX	ug/L	<100	100	2546394
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	100		2546394
4-Bromofluorobenzene	%	103		2546394
D10-Ethylbenzene	%	85		2546394
D4-1,2-Dichloroethane	%	96		2546394
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B196241
Report Date: 2011/07/15

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W, OAKVILLE
Sampler Initials: LA

Test Summary

Maxxam ID	KA0812	Collected	2011/06/29
Sample ID	MW-401	Shipped	
Matrix	Water	Received	2011/06/29

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2546394	N/A	2011/07/11	SIMON XI

Maxxam Job #: B196241
Report Date: 2011/07/15

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W, OAKVILLE
Sampler Initials: LA

Package 1	21.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample KA0812-01: Sample ID#: MW401 Re-Analyzed for F1BTEX.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST. W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB196241

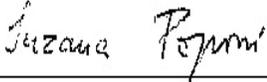
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2546394 JXI	Matrix Spike	1,4-Difluorobenzene	2011/07/11		97	%	70 - 130		
		4-Bromofluorobenzene	2011/07/11		104	%	70 - 130		
		D10-Ethylbenzene	2011/07/11		87	%	70 - 130		
		D4-1,2-Dichloroethane	2011/07/11		95	%	70 - 130		
		Benzene	2011/07/11		83	%	70 - 130		
		Toluene	2011/07/11		90	%	70 - 130		
		Ethylbenzene	2011/07/11		NC	%	70 - 130		
		o-Xylene	2011/07/11		100	%	70 - 130		
		p+m-Xylene	2011/07/11		NC	%	70 - 130		
		F1 (C6-C10)	2011/07/11		98	%	70 - 130		
		Spiked Blank	1,4-Difluorobenzene	2011/07/11		103	%	70 - 130	
			4-Bromofluorobenzene	2011/07/11		102	%	70 - 130	
			D10-Ethylbenzene	2011/07/11		89	%	70 - 130	
			D4-1,2-Dichloroethane	2011/07/11		95	%	70 - 130	
			Benzene	2011/07/11		83	%	70 - 130	
	Toluene		2011/07/11		92	%	70 - 130		
	Ethylbenzene		2011/07/11		95	%	70 - 130		
	o-Xylene		2011/07/11		91	%	70 - 130		
	p+m-Xylene		2011/07/11		94	%	70 - 130		
	F1 (C6-C10)		2011/07/11		98	%	70 - 130		
	Method Blank		1,4-Difluorobenzene	2011/07/11		108	%	70 - 130	
			4-Bromofluorobenzene	2011/07/11		108	%	70 - 130	
			D10-Ethylbenzene	2011/07/11		88	%	70 - 130	
			D4-1,2-Dichloroethane	2011/07/11		98	%	70 - 130	
			Benzene	2011/07/11	<0.20			ug/L	
		Toluene	2011/07/11	<0.20			ug/L		
		Ethylbenzene	2011/07/11	<0.20			ug/L		
		o-Xylene	2011/07/11	<0.20			ug/L		
		p+m-Xylene	2011/07/11	<0.40			ug/L		
		Total Xylenes	2011/07/11	<0.40			ug/L		
		F1 (C6-C10)	2011/07/11	<100			ug/L		
		RPD	F1 (C6-C10) - BTEX	2011/07/11		<100		ug/L	
			F1 (C6-C10)	2011/07/11		3.2		%	40
F1 (C6-C10) - BTEX	2011/07/11			6.2		%	40		

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

Validation Signature Page

Maxxam Job #: B196241

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



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:

Company Name: #2432 SNC-Lavalin Environment
 Contact Name: Akruti Atawala
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3J 0H1
 Phone: (416)635-5882 Fax: (416)635-5353
 Email: akruti.atawala@snclavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name: _____
 Contact Name: _____
 Address: _____
 Phone: _____ Fax: _____
 Email: _____

PROJECT INFORMATION:

Quotation #: B04714 Shell GESS
 P.O. #: _____
 Project #: S09125
 Project Name: 3005 Dundas St W, OAKVILLE
 Site #: S09125
 Sampled By: LA/HB

REGULATORY CRITERIA:

MISA Reg. 153/04 Sewer Use Sanitary Storm Combined

PWQO Table 1 Residential/Parkland Industrial/Commercial
 Reg. 558 Table 2 Table 3 Medium/Fine Coarse
 Table 6 Other (specify) _____ Report Criteria on C of A?

SPECIAL INSTRUCTIONS

Reg. 153
 2004 2011

ANALYSIS REQUESTED (Please be specific):

Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4	BTEX	MTBE
---------------------------------	------------------------------	-----------	------	------

TURNAROUND

PLEASE PROVIDE ADVANCE NOTICE

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days
 Please note: Standard TAT for certain days - contact your Project Manager

Job Specific Rush TAT (if applicable): _____
 Date Required: _____
 Rush Confirmation Number: _____

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4	BTEX	MTBE	# of Bottles
1	MW-401	June 29/11	1:10p	GW	N	X	X	X		8
2	BH-98		1:10p	WT	N	X	X	X		8
3	MW-402		1:45p	WT	N	X	X	X		8
4	MW-403		1:45p	WT	N	X	X	X		8
5	MW-404		9am	WT	N	X	X	X		8
6	MW-405		1pm	WT	N	X	X	X		8
7				WT						
8				WT						
9				WT						
10				WT						

RELINQUISHED BY: (Signature/Print) Luke Arnold	Date: (YY/MM/DD) 29/06/11	Time: 3:25p	RECEIVED BY: (Signature/Print) Ashley Redden	Date: (YY/MM/DD) 29/06/11	Time: 15:41	# Jars Used and Not Submitted	Time Sensitive <input type="checkbox"/>	Temperature 21/20
----------------------------------------------------------	-------------------------------------	-----------------------	--------------------------------------------------------	-------------------------------------	-----------------------	-----------------------------------------	---------------------------------------------------	-----------------------------

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD, AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN UNUSUAL TAT DELAYS.

Your Project #: S09125
 Site: 3005 DUNDAS ST.
 Your C.O.C. #: NA

Attention: Akruiti Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/15

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1A1977

Received: 2011/07/11, 14:58

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2011/07/15	CAM SOP-00315	CCME CWS

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your Project #: S09125
Site: 3005 DUNDAS ST.
Your C.O.C. #: NA

Attention: Akruți Atawala
SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/15

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

15 Jul 2011 16:11:33 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B1A1977
 Report Date: 2011/07/15

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST.

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KC9190		
Sampling Date		2011/06/29		
COC Number		NA		
	Units	MW-401	RDL	QC Batch

BTEX & F1 Hydrocarbons				
Benzene	ug/L	8.6	0.20	2550011
Toluene	ug/L	0.35	0.20	2550011
Ethylbenzene	ug/L	0.27	0.20	2550011
o-Xylene	ug/L	0.26	0.20	2550011
p+m-Xylene	ug/L	0.92	0.40	2550011
Total Xylenes	ug/L	1.2	0.40	2550011
F1 (C6-C10)	ug/L	<100	100	2550011
F1 (C6-C10) - BTEX	ug/L	<100	100	2550011
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	99		2550011
4-Bromofluorobenzene	%	97		2550011
D10-Ethylbenzene	%	110		2550011
D4-1,2-Dichloroethane	%	106		2550011

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1A1977
Report Date: 2011/07/15

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST.

Test Summary

Maxxam ID	KC9190	Collected	2011/06/29
Sample ID	MW-401	Shipped	
Matrix	Water	Received	2011/07/11

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2550011	N/A	2011/07/15	GEORGETA RUSU

Maxxam Job #: B1A1977
Report Date: 2011/07/15

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST.

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Project name: 3005 DUNDAS ST.

Quality Assurance Report
 Maxxam Job Number: MB1A1977

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2550011 GRU	Matrix Spike	1,4-Difluorobenzene	2011/07/14		101	%	70 - 130	
		4-Bromofluorobenzene	2011/07/14		106	%	70 - 130	
		D10-Ethylbenzene	2011/07/14		98	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/14		101	%	70 - 130	
		Benzene	2011/07/14		99	%	70 - 130	
		Toluene	2011/07/14		106	%	70 - 130	
		Ethylbenzene	2011/07/14		107	%	70 - 130	
		o-Xylene	2011/07/14		111	%	70 - 130	
		p+m-Xylene	2011/07/14		109	%	70 - 130	
		F1 (C6-C10)	2011/07/14		98	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2011/07/14		99	%	70 - 130
			4-Bromofluorobenzene	2011/07/14		108	%	70 - 130
	D10-Ethylbenzene		2011/07/14		99	%	70 - 130	
	D4-1,2-Dichloroethane		2011/07/14		117	%	70 - 130	
	Benzene		2011/07/14		100	%	70 - 130	
	Toluene		2011/07/14		102	%	70 - 130	
	Ethylbenzene		2011/07/14		104	%	70 - 130	
	o-Xylene		2011/07/14		105	%	70 - 130	
	p+m-Xylene		2011/07/14		101	%	70 - 130	
	F1 (C6-C10)		2011/07/14		87	%	70 - 130	
	Method Blank		1,4-Difluorobenzene	2011/07/14		97	%	70 - 130
			4-Bromofluorobenzene	2011/07/14		93	%	70 - 130
		D10-Ethylbenzene	2011/07/14		105	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/14		100	%	70 - 130	
		Benzene	2011/07/14	<0.20		ug/L		
		Toluene	2011/07/14	<0.20		ug/L		
		Ethylbenzene	2011/07/14	<0.20		ug/L		
		o-Xylene	2011/07/14	<0.20		ug/L		
		p+m-Xylene	2011/07/14	<0.40		ug/L		
		Total Xylenes	2011/07/14	<0.40		ug/L		
		F1 (C6-C10)	2011/07/14	<100		ug/L		
		RPD	F1 (C6-C10) - BTEX	2011/07/14		<100		ug/L
	F1 (C6-C10)		2011/07/14		NC		%	40
	F1 (C6-C10) - BTEX		2011/07/14		NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B1A1977

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

A handwritten signature in black ink, appearing to read "ABDI MOHAMUD".

ABDI MOHAMUD, Senior Analyst

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
 Your C.O.C. #: 35888

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1A5686

Received: 2011/07/15, 13:14

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2011/07/20	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2011/07/21	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2011/07/19	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/07/20	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
Your C.O.C. #: 35888

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Jennifer Rimmer

21 Jul 2011 16:58:39 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
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Total cover pages: 2

Page 2 of 10

Maxxam Job #: B1A5686
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KE7379		
Sampling Date		2011/07/15 11:00		
COC Number		35888		
	Units	MW - 401	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	35	0.5	2554100
Ethylbenzene	ug/L	0.7	0.5	2554100
Methyl t-butyl ether (MTBE)	ug/L	11	1	2554100
Toluene	ug/L	<1	1	2554100
p+m-Xylene	ug/L	1.8	0.5	2554100
o-Xylene	ug/L	<0.5	0.5	2554100
Xylene (Total)	ug/L	1.8	0.5	2554100
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	98		2554100
D4-1,2-Dichloroethane	%	102		2554100
D8-Toluene	%	98		2554100

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1A5686
Report Date: 2011/07/21

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KE7379		
Sampling Date		2011/07/15 11:00		
COC Number		35888		
	Units	MW - 401	RDL	QC Batch

BTEX & F1 Hydrocarbons				
F1 (C6-C10)	ug/L	130	100	2555343
F1 (C6-C10) - BTEX	ug/L	<100	100	2555343
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	2554580
F3 (C16-C34 Hydrocarbons)	ug/L	<100	100	2554580
F4 (C34-C50 Hydrocarbons)	ug/L	<100	100	2554580
Reached Baseline at C50	ug/L	Yes		2554580
F1 + F2	ug/L	<100	100	2552952
F3 + F4	ug/L	<100	100	2552953
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	104		2555343
4-Bromofluorobenzene	%	99		2555343
D10-Ethylbenzene	%	103		2555343
D4-1,2-Dichloroethane	%	94		2555343
o-Terphenyl	%	107		2554580
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B1A5686
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Test Summary

Maxxam ID	KE7379	Collected	2011/07/15
Sample ID	MW - 401	Shipped	
Matrix	Water	Received	2011/07/15

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2555343	N/A	2011/07/20	DOMNICA ANDRONESCU
F1 + F2 Calculation		2552952	N/A	2011/07/21	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2554580	2011/07/19	2011/07/20	JEEVARAJ JEEVARATRNAM
F3 + F4 Calculation		2552953	N/A	2011/07/20	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2554100	N/A	2011/07/20	AMPOMAH ADUTWUM

Maxxam Job #: B1A5686
Report Date: 2011/07/21

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Package 1	10.0°C
-----------	--------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Presence of Visible Sediments.

F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample KE7379-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report
 Maxxam Job Number: MB1A5686

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2554100 AAD	Matrix Spike	4-Bromofluorobenzene	2011/07/20		101	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130
		D8-Toluene	2011/07/20		101	%	70 - 130
		Benzene	2011/07/20		103	%	70 - 130
		Ethylbenzene	2011/07/20		106	%	70 - 130
		Methyl t-butyl ether (MTBE)	2011/07/20		104	%	70 - 130
		Toluene	2011/07/20		102	%	70 - 130
		p+m-Xylene	2011/07/20		106	%	70 - 130
		o-Xylene	2011/07/20		106	%	70 - 130
		Spiked Blank	4-Bromofluorobenzene	2011/07/20		104	%
	D4-1,2-Dichloroethane		2011/07/20		100	%	70 - 130
	D8-Toluene		2011/07/20		101	%	70 - 130
	Benzene		2011/07/20		102	%	70 - 130
	Ethylbenzene		2011/07/20		104	%	70 - 130
	Methyl t-butyl ether (MTBE)		2011/07/20		107	%	70 - 130
	Toluene		2011/07/20		101	%	70 - 130
	p+m-Xylene		2011/07/20		107	%	70 - 130
	o-Xylene		2011/07/20		107	%	70 - 130
	Method Blank		4-Bromofluorobenzene	2011/07/20		88	%
		D4-1,2-Dichloroethane	2011/07/20		115	%	70 - 130
		D8-Toluene	2011/07/20		103	%	70 - 130
		Benzene	2011/07/20	<0.1		ug/L	
		Ethylbenzene	2011/07/20	<0.1		ug/L	
		Methyl t-butyl ether (MTBE)	2011/07/20	<0.2		ug/L	
		Toluene	2011/07/20	<0.2		ug/L	
		p+m-Xylene	2011/07/20	<0.1		ug/L	
		o-Xylene	2011/07/20	<0.1		ug/L	
		Xylene (Total)	2011/07/20	<0.1		ug/L	
	RPD	Benzene	2011/07/20		NC	%	30
		Ethylbenzene	2011/07/20		NC	%	30
		Methyl t-butyl ether (MTBE)	2011/07/20		NC	%	30
		Toluene	2011/07/20		NC	%	30
		p+m-Xylene	2011/07/20		NC	%	30
o-Xylene		2011/07/20		NC	%	30	
Xylene (Total)		2011/07/20		NC	%	30	
2554580 JJE	Matrix Spike	o-Terphenyl	2011/07/19		104	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2011/07/19		105	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2011/07/19		108	%	60 - 130
	Spiked Blank	o-Terphenyl	2011/07/19		104	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2011/07/19		108	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2011/07/19		106	%	60 - 130
	Method Blank	o-Terphenyl	2011/07/19		105	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2011/07/19	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2011/07/19	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2011/07/19	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2011/07/20		NC	%	50
F3 (C16-C34 Hydrocarbons)		2011/07/20		NC	%	50	
F4 (C34-C50 Hydrocarbons)		2011/07/20		NC	%	50	
2555343 DAN	Matrix Spike	1,4-Difluorobenzene	2011/07/20		103	%	70 - 130
		4-Bromofluorobenzene	2011/07/20		102	%	70 - 130
		D10-Ethylbenzene	2011/07/20		99	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/20		102	%	70 - 130
		F1 (C6-C10)	2011/07/20		87	%	70 - 130

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB1A5686

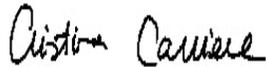
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2555343 DAN	Spiked Blank	1,4-Difluorobenzene	2011/07/20		104	%	70 - 130
		4-Bromofluorobenzene	2011/07/20		102	%	70 - 130
		D10-Ethylbenzene	2011/07/20		102	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/20		98	%	70 - 130
	Method Blank	F1 (C6-C10)	2011/07/20		95	%	70 - 130
		1,4-Difluorobenzene	2011/07/20		105	%	70 - 130
		4-Bromofluorobenzene	2011/07/20		96	%	70 - 130
		D10-Ethylbenzene	2011/07/20		94	%	70 - 130
	RPD	D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130
		F1 (C6-C10)	2011/07/20	<100		ug/L	
		F1 (C6-C10) - BTEX	2011/07/20	<100		ug/L	
		F1 (C6-C10)	2011/07/20	NC		%	40
		F1 (C6-C10) - BTEX	2011/07/20	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

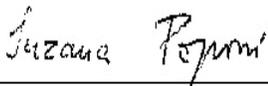
Validation Signature Page

Maxxam Job #: B1A5686

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



CRISTINA CARRIERE, Scientific Services



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



6740 Campobello Road, Mississauga, ON L5N 2L
Phone: 905-817-5700 Fax: 905-817-5778 To

15-Jul-11 13:14
MARYAM ARGHANDEH

CHAIN OF CUSTODY RECORD

35888

Page 1 of 1

INVOICE INFORMATION	
Company Name:	#2432 SNC LAMBLIN ENV
Contact Name:	AKIUTI ATAWALA
Address:	20 De Boers Dr, suite 200 Toronto ON M3J 2H1
Phone:	416-635-8588 Fax: 635-5353
Email:	akiuti.atawala@sncblm.com

REPOR	
Company Name:	VPA ENV-961
Contact Name:	
Address:	
Phone:	
Fax:	
Email:	

PROJECT INFORMATION	
Quotation #:	Shell 655
P.O. #:	
Project #:	509125
Project Name:	3005 Dundas St. W.
Location:	Durkville
Sampled By:	Fabienne Etienne

MAXXAM JOB NUMBER	
CHAIN OF CUSTODY #	
00	

REGULATORY CRITERIA	
Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form.	
<input type="checkbox"/> MISA	<input type="checkbox"/> Sewer Use
<input type="checkbox"/> PWQO	<input type="checkbox"/> Sanitary
<input type="checkbox"/> Reg. 558	<input type="checkbox"/> Storm
<input checked="" type="checkbox"/> Reg. 153	<input type="checkbox"/> Municipality:
Other ()	Report Criteria on C of A? <input type="checkbox"/>

ANALYSIS REQUESTED (Please be specific)

Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Analysis
N	N	PAK FI-F4
		BTX
		PTRE

TURNAROUND TIME (TAT) REQUIRED

PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS.

Regular (Standard) TAT:
 5 to 7 Working Days

Rush TAT: Rush Confirmation #: _____ (call Lab for #)

1 day 2 days 3 days

DATE Required: _____

TIME Required: _____

Please note that TAT for certain tests such as BOD and Dioxins/Furans are > 5 days contact your Project Manager for details.

SAMPLES MUST BE KEPT COOL (<10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.

Sample Identification	Date Sampled	Time Sampled	Matrix (GW, SW, Soil, etc.)
NW-401	July 15/11	11:00 am	GW

# of Cont.	COMMENTS / TAT COMMENTS
8	

RELINQUISHED BY (Signature/Print)
F. Etienne / Fabienne Etienne

RECEIVED BY (Signature/Print)
RICKET-SAMRHO

Date: July 15/11 1:00 PM
2011/07/15 13:11

JARS USED AND NOT SUBMITTED
0

Laboratory Use Only
Temperature (°C) on Receipt
13/7/10

*MANDATORY SECTIONS IN GREY MUST BE FILLED OUT. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Your Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
 Your C.O.C. #: OO569578

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1A5694

Received: 2011/07/15, 13:14

Sample Matrix: Water
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/07/20	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2011/07/21	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2011/07/19	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/07/20	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
Your C.O.C. #: OO569578

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Jennifer Rimmer

21 Jul 2011 16:59:01 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 10

Maxxam Job #: B1A5694
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KE7402		
Sampling Date		2011/07/15 12:00		
COC Number		OO569578		
	Units	BH -99	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.1	0.1	2554100
Ethylbenzene	ug/L	<0.1	0.1	2554100
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	2554100
Toluene	ug/L	<0.2	0.2	2554100
p+m-Xylene	ug/L	<0.1	0.1	2554100
o-Xylene	ug/L	<0.1	0.1	2554100
Xylene (Total)	ug/L	<0.1	0.1	2554100
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	98		2554100
D4-1,2-Dichloroethane	%	105		2554100
D8-Toluene	%	98		2554100

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1A5694
 Report Date: 2011/07/21

 SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KE7401	KE7402	KE7402		
Sampling Date		2011/07/15 12:00	2011/07/15 12:00	2011/07/15 12:00		
COC Number		OO569578	OO569578	OO569578		
	Units	TRIP BLANK	BH -99	BH -99 Lab-Dup	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L	<0.20			0.20	2555343
Toluene	ug/L	<0.20			0.20	2555343
Ethylbenzene	ug/L	<0.20			0.20	2555343
o-Xylene	ug/L	<0.20			0.20	2555343
p+m-Xylene	ug/L	<0.40			0.40	2555343
Total Xylenes	ug/L	<0.40			0.40	2555343
F1 (C6-C10)	ug/L	<100	<100		100	2555343
F1 (C6-C10) - BTEX	ug/L	<100	<100		100	2555343
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L		<100	<100	100	2554580
F3 (C16-C34 Hydrocarbons)	ug/L		<100	<100	100	2554580
F4 (C34-C50 Hydrocarbons)	ug/L		<100	<100	100	2554580
Reached Baseline at C50	ug/L		Yes	Yes		2554580
F1 + F2	ug/L		<100		100	2552952
F3 + F4	ug/L		<100		100	2552953
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	106			2555343
4-Bromofluorobenzene	%	97	97			2555343
D10-Ethylbenzene	%	92	101			2555343
D4-1,2-Dichloroethane	%	104	101			2555343
o-Terphenyl	%		105	105		2554580
RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch						

Maxxam Job #: B1A5694
Report Date: 2011/07/21

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Test Summary

Maxxam ID KE7401
Sample ID TRIP BLANK
Matrix Water
Collected 2011/07/15
Shipped
Received 2011/07/15

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2555343	N/A	2011/07/20	DOMNICA ANDRONESCU

Maxxam ID KE7402
Sample ID BH -99
Matrix Water
Collected 2011/07/15
Shipped
Received 2011/07/15

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2555343	N/A	2011/07/20	DOMNICA ANDRONESCU
F1 + F2 Calculation		2552952	N/A	2011/07/21	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2554580	2011/07/19	2011/07/20	JEEVARAJ JEEVARATRNAM
F3 + F4 Calculation		2552953	N/A	2011/07/20	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2554100	N/A	2011/07/20	AMPOMAH ADUTWUM

Maxxam ID KE7402 Dup
Sample ID BH -99
Matrix Water
Collected 2011/07/15
Shipped
Received 2011/07/15

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2554580	2011/07/19	2011/07/20	JEEVARAJ JEEVARATRNAM

Maxxam Job #: B1A5694
Report Date: 2011/07/21

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Package 1	10.0°C
-----------	--------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report
 Maxxam Job Number: MB1A5694

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2554100 AAD	Matrix Spike	4-Bromofluorobenzene	2011/07/20		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130	
		D8-Toluene	2011/07/20		101	%	70 - 130	
		Benzene	2011/07/20		103	%	70 - 130	
		Ethylbenzene	2011/07/20		106	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/20		104	%	70 - 130	
		Toluene	2011/07/20		102	%	70 - 130	
		p+m-Xylene	2011/07/20		106	%	70 - 130	
		o-Xylene	2011/07/20		106	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2011/07/20		104	%	70 - 130
	D4-1,2-Dichloroethane		2011/07/20		100	%	70 - 130	
	D8-Toluene		2011/07/20		101	%	70 - 130	
	Benzene		2011/07/20		102	%	70 - 130	
	Ethylbenzene		2011/07/20		104	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2011/07/20		107	%	70 - 130	
	Toluene		2011/07/20		101	%	70 - 130	
	p+m-Xylene		2011/07/20		107	%	70 - 130	
	o-Xylene		2011/07/20		107	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2011/07/20		88	%	70 - 130
		D4-1,2-Dichloroethane	2011/07/20		115	%	70 - 130	
		D8-Toluene	2011/07/20		103	%	70 - 130	
		Benzene	2011/07/20	<0.1		ug/L		
		Ethylbenzene	2011/07/20	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2011/07/20	<0.2		ug/L		
		Toluene	2011/07/20	<0.2		ug/L		
		p+m-Xylene	2011/07/20	<0.1		ug/L		
		o-Xylene	2011/07/20	<0.1		ug/L		
		Xylene (Total)	2011/07/20	<0.1		ug/L		
	RPD	Benzene	2011/07/20	NC		%	30	
		Ethylbenzene	2011/07/20	NC		%	30	
		Methyl t-butyl ether (MTBE)	2011/07/20	NC		%	30	
		Toluene	2011/07/20	NC		%	30	
		p+m-Xylene	2011/07/20	NC		%	30	
o-Xylene		2011/07/20	NC		%	30		
Xylene (Total)		2011/07/20	NC		%	30		
2554580 JJE		Matrix Spike	o-Terphenyl	2011/07/19		104	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2011/07/19		105	%	60 - 130
	F4 (C34-C50 Hydrocarbons)		2011/07/19		108	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/07/19		104	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/19		108	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/19		106	%	60 - 130	
	Method Blank	o-Terphenyl	2011/07/19		105	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/19	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/07/19	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/07/19	<100		ug/L		
	RPD [KE7402-01]	F2 (C10-C16 Hydrocarbons)	2011/07/20	NC		%	50	
F3 (C16-C34 Hydrocarbons)		2011/07/20	NC		%	50		
F4 (C34-C50 Hydrocarbons)		2011/07/20	NC		%	50		
2555343 DAN	Matrix Spike	1,4-Difluorobenzene	2011/07/20		103	%	70 - 130	
		4-Bromofluorobenzene	2011/07/20		102	%	70 - 130	
		D10-Ethylbenzene	2011/07/20		99	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/20		102	%	70 - 130	
		Benzene	2011/07/20		91	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB1A5694

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2555343 DAN	Matrix Spike	Toluene	2011/07/20		94	%	70 - 130	
		Ethylbenzene	2011/07/20		97	%	70 - 130	
		o-Xylene	2011/07/20		97	%	70 - 130	
		p+m-Xylene	2011/07/20		94	%	70 - 130	
	Spiked Blank	F1 (C6-C10)	2011/07/20		87	%	70 - 130	
		1,4-Difluorobenzene	2011/07/20		104	%	70 - 130	
		4-Bromofluorobenzene	2011/07/20		102	%	70 - 130	
		D10-Ethylbenzene	2011/07/20		102	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/20		98	%	70 - 130	
		Benzene	2011/07/20		93	%	70 - 130	
		Toluene	2011/07/20		97	%	70 - 130	
		Ethylbenzene	2011/07/20		100	%	70 - 130	
	Method Blank	o-Xylene	2011/07/20		100	%	70 - 130	
		p+m-Xylene	2011/07/20		97	%	70 - 130	
		F1 (C6-C10)	2011/07/20		95	%	70 - 130	
		1,4-Difluorobenzene	2011/07/20		105	%	70 - 130	
		4-Bromofluorobenzene	2011/07/20		96	%	70 - 130	
		D10-Ethylbenzene	2011/07/20		94	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130	
		Benzene	2011/07/20	<0.20			ug/L	
		Toluene	2011/07/20	<0.20			ug/L	
		Ethylbenzene	2011/07/20	<0.20			ug/L	
		o-Xylene	2011/07/20	<0.20			ug/L	
	RPD	p+m-Xylene	2011/07/20		<0.40		ug/L	
		Total Xylenes	2011/07/20		<0.40		ug/L	
		F1 (C6-C10)	2011/07/20		<100		ug/L	
		F1 (C6-C10) - BTEX	2011/07/20		<100		ug/L	
		Benzene	2011/07/20	NC			%	40
		Toluene	2011/07/20	NC			%	40
		Ethylbenzene	2011/07/20	NC			%	40
		o-Xylene	2011/07/20	NC			%	40
		p+m-Xylene	2011/07/20	NC			%	40
		Total Xylenes	2011/07/20	NC			%	40
F1 (C6-C10)		2011/07/20	NC			%	40	
F1 (C6-C10) - BTEX	2011/07/20	NC			%	40		

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

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

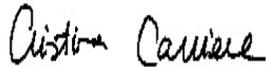
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

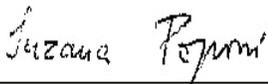
Validation Signature Page

Maxxam Job #: B1A5694

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



CRISTINA CARRIERE, Scientific Services



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Your Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
 Your C.O.C. #: OO569579

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1A5700

Received: 2011/07/15, 13:14

Sample Matrix: Water
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2011/07/20	CAM SOP-00315	CCME CWS
F1 + F2 Calculation	1	N/A	2011/07/21	CAM SOP-00316	CCME Hydrocarbons
Petroleum Hydrocarbons F2-F4 in Water	1	2011/07/19	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
F3 + F4 Calculation	1	N/A	2011/07/20	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/07/20	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
Your C.O.C. #: OO569579

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/07/21

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Jennifer Rimmer

21 Jul 2011 16:59:34 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

JENNIFER RIMMER,
Email: jrimmer@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 10

Maxxam Job #: B1A5700
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KE7415		
Sampling Date		2011/07/15 10:30		
COC Number		OO569579		
	Units	MW-401(LOW FLOW)	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	32	0.5	2554100
Ethylbenzene	ug/L	<0.5	0.5	2554100
Methyl t-butyl ether (MTBE)	ug/L	10	1	2554100
Toluene	ug/L	<1	1	2554100
p+m-Xylene	ug/L	0.6	0.5	2554100
o-Xylene	ug/L	<0.5	0.5	2554100
Xylene (Total)	ug/L	0.6	0.5	2554100
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	98		2554100
D4-1,2-Dichloroethane	%	102		2554100
D8-Toluene	%	98		2554100
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B1A5700
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KE7415		
Sampling Date		2011/07/15 10:30		
COC Number		OO569579		
	Units	MW-401(LOW FLOW)	RDL	QC Batch

BTEX & F1 Hydrocarbons				
F1 (C6-C10)	ug/L	150	100	2555343
F1 (C6-C10) - BTEX	ug/L	120	100	2555343
F2-F4 Hydrocarbons				
F2 (C10-C16 Hydrocarbons)	ug/L	<100	100	2554580
F3 (C16-C34 Hydrocarbons)	ug/L	<100	100	2554580
F4 (C34-C50 Hydrocarbons)	ug/L	<100	100	2554580
Reached Baseline at C50	ug/L	Yes		2554580
F1 + F2	ug/L	120	100	2552952
F3 + F4	ug/L	<100	100	2552953
Surrogate Recovery (%)				
1,4-Difluorobenzene	%	106		2555343
4-Bromofluorobenzene	%	99		2555343
D10-Ethylbenzene	%	96		2555343
D4-1,2-Dichloroethane	%	98		2555343
o-Terphenyl	%	108		2554580
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: B1A5700
 Report Date: 2011/07/21

SNC-Lavalin Environment
 Client Project #: S09125
 Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Test Summary

Maxxam ID	KE7415	Collected	2011/07/15
Sample ID	MW-401(Low Flow)	Shipped	
Matrix	Water	Received	2011/07/15

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2555343	N/A	2011/07/20	DOMNICA ANDRONESCU
F1 + F2 Calculation		2552952	N/A	2011/07/21	AUTOMATED STATCHK
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2554580	2011/07/19	2011/07/20	JEEVARAJ JEEVARATRNAM
F3 + F4 Calculation		2552953	N/A	2011/07/20	AUTOMATED STATCHK
Volatile Organic Compounds in Water	P&T/MS	2554100	N/A	2011/07/20	AMPOMAH ADUTWUM

Maxxam Job #: B1A5700
Report Date: 2011/07/21

SNC-Lavalin Environment
Client Project #: S09125
Project name: 3005 DUNDAS ST. W., OAKVILLE, ON

Package 1	10.0°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample KE7415-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report
 Maxxam Job Number: MB1A5700

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2554100 AAD	Matrix Spike	4-Bromofluorobenzene	2011/07/20		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130	
		D8-Toluene	2011/07/20		101	%	70 - 130	
		Benzene	2011/07/20		103	%	70 - 130	
		Ethylbenzene	2011/07/20		106	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/07/20		104	%	70 - 130	
		Toluene	2011/07/20		102	%	70 - 130	
		p+m-Xylene	2011/07/20		106	%	70 - 130	
		o-Xylene	2011/07/20		106	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2011/07/20		104	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/20		100	%	70 - 130
	D8-Toluene		2011/07/20		101	%	70 - 130	
	Benzene		2011/07/20		102	%	70 - 130	
	Ethylbenzene		2011/07/20		104	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2011/07/20		107	%	70 - 130	
	Toluene		2011/07/20		101	%	70 - 130	
	p+m-Xylene		2011/07/20		107	%	70 - 130	
	o-Xylene		2011/07/20		107	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2011/07/20		88	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/20		115	%	70 - 130
		D8-Toluene	2011/07/20		103	%	70 - 130	
		Benzene	2011/07/20	<0.1		ug/L		
		Ethylbenzene	2011/07/20	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2011/07/20	<0.2		ug/L		
		Toluene	2011/07/20	<0.2		ug/L		
		p+m-Xylene	2011/07/20	<0.1		ug/L		
		o-Xylene	2011/07/20	<0.1		ug/L		
		Xylene (Total)	2011/07/20	<0.1		ug/L		
		RPD	Benzene	2011/07/20	NC		%	30
			Ethylbenzene	2011/07/20	NC		%	30
	Methyl t-butyl ether (MTBE)		2011/07/20	NC		%	30	
	Toluene		2011/07/20	NC		%	30	
	p+m-Xylene		2011/07/20	NC		%	30	
	o-Xylene		2011/07/20	NC		%	30	
Xylene (Total)	2011/07/20		NC		%	30		
2554580 JJE	Matrix Spike [KE7415-01]	o-Terphenyl	2011/07/19		104	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/19		105	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/19		108	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/07/19		104	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/19		109	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/07/19		108	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/07/19		106	%	60 - 130	
	Method Blank	o-Terphenyl	2011/07/19		105	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/07/19	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/07/19	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/07/19	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2011/07/20	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2011/07/20	NC		%	50	
		F4 (C34-C50 Hydrocarbons)	2011/07/20	NC		%	50	
	2555343 DAN	Matrix Spike	1,4-Difluorobenzene	2011/07/20		103	%	70 - 130
4-Bromofluorobenzene			2011/07/20		102	%	70 - 130	
D10-Ethylbenzene			2011/07/20		99	%	70 - 130	
D4-1,2-Dichloroethane			2011/07/20		102	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB1A5700

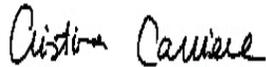
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2555343 DAN	Matrix Spike	F1 (C6-C10)	2011/07/20		87	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2011/07/20		104	%	70 - 130
	Method Blank	Spiked Blank	4-Bromofluorobenzene	2011/07/20		102	%	70 - 130
			D10-Ethylbenzene	2011/07/20		102	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/20		98	%	70 - 130
			F1 (C6-C10)	2011/07/20		95	%	70 - 130
		Method Blank	1,4-Difluorobenzene	2011/07/20		105	%	70 - 130
			4-Bromofluorobenzene	2011/07/20		96	%	70 - 130
			D10-Ethylbenzene	2011/07/20		94	%	70 - 130
			D4-1,2-Dichloroethane	2011/07/20		97	%	70 - 130
	RPD	Method Blank	F1 (C6-C10)	2011/07/20	<100		ug/L	
			F1 (C6-C10) - BTEX	2011/07/20	<100		ug/L	
			F1 (C6-C10)	2011/07/20	NC		%	40
			F1 (C6-C10) - BTEX	2011/07/20	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

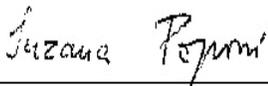
Validation Signature Page

Maxxam Job #: B1A5700

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



CRISTINA CARRIERE, Scientific Services



SUZANA POPOVIC, Supervisor, Hydrocarbons

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Your Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE
 Your C.O.C. #: 27913802, 279138-02-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2012/10/31

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1D8954

Received: 2011/09/09, 12:31

Sample Matrix: Water
 # Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	4	N/A	2011/09/14	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	4	2011/09/12	2011/09/13	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	4	N/A	2011/09/13	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST W, OAKVILLE
Your C.O.C. #: 27913802, 279138-02-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2012/10/31

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

31 Oct 2012 12:20:06 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryam Arghandeh,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B1D8954
 Report Date: 2012/10/31

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KV4363	KV4364		KV4365		KV4366		
Sampling Date		2011/09/09 12:00	2011/09/09 11:15		2011/09/09 11:30		2011/09/09 11:45		
COC Number		279138-02-01	279138-02-01		279138-02-01		279138-02-01		
	Units	MW-501	MW-502	RDL	MW-503	RDL	MW-504	RDL	QC Batch

Volatile Organics									
Benzene	ug/L	<0.10	<0.10	0.10		0.10	<0.20	0.20	2610408
Ethylbenzene	ug/L	<0.10	<0.10	0.10		0.10	<0.20	0.20	2610408
Methyl t-butyl ether (MTBE)	ug/L	0.70	17	0.20	620	10	47	0.40	2610408
Toluene	ug/L	<0.20	<0.20	0.20			<0.40	0.40	2610408
p+m-Xylene	ug/L	<0.10	<0.10	0.10			<0.20	0.20	2610408
o-Xylene	ug/L	<0.10	<0.10	0.10			<0.20	0.20	2610408
Xylene (Total)	ug/L	<0.10	<0.10	0.10			<0.20	0.20	2610408
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	96	98		96		96		2610408
D4-1,2-Dichloroethane	%	107	107		106		107		2610408
D8-Toluene	%	92	94		93		93		2610408

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1D8954
 Report Date: 2012/10/31

 SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KV4363	KV4364	KV4365	KV4366		
Sampling Date		2011/09/09 12:00	2011/09/09 11:15	2011/09/09 11:30	2011/09/09 11:45		
COC Number		279138-02-01	279138-02-01	279138-02-01	279138-02-01		
	Units	MW-501	MW-502	MW-503	MW-504	RDL	QC Batch

BTEX & F1 Hydrocarbons							
Benzene	ug/L			<0.20		0.20	2610966
Toluene	ug/L			<0.20		0.20	2610966
Ethylbenzene	ug/L			<0.20		0.20	2610966
o-Xylene	ug/L			<0.20		0.20	2610966
p+m-Xylene	ug/L			<0.40		0.40	2610966
Total Xylenes	ug/L			<0.40		0.40	2610966
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2610966
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2610966
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611328
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611328
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611328
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2611328
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	88	99	84	97		2610966
4-Bromofluorobenzene	%	100	99	99	98		2610966
D10-Ethylbenzene	%	103	102	103	105		2610966
D4-1,2-Dichloroethane	%	95	97	98	100		2610966
o-Terphenyl	%	100	101	103	100		2611328

 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1D8954
Report Date: 2012/10/31

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST W, OAKVILLE

Test Summary

Maxxam ID KV4363
Sample ID MW-501
Matrix Water

Collected 2011/09/09
Shipped
Received 2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611328	2011/09/12	2011/09/13	Dorina Popa
Volatile Organic Compounds in Water	P&T/MS	2610408	N/A	2011/09/13	Jagruti Tailor

Maxxam ID KV4364
Sample ID MW-502
Matrix Water

Collected 2011/09/09
Shipped
Received 2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611328	2011/09/12	2011/09/13	Dorina Popa
Volatile Organic Compounds in Water	P&T/MS	2610408	N/A	2011/09/13	Jagruti Tailor

Maxxam ID KV4365
Sample ID MW-503
Matrix Water

Collected 2011/09/09
Shipped
Received 2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611328	2011/09/12	2011/09/13	Dorina Popa
Volatile Organic Compounds in Water	P&T/MS	2610408	N/A	2011/09/13	Jagruti Tailor

Maxxam ID KV4366
Sample ID MW-504
Matrix Water

Collected 2011/09/09
Shipped
Received 2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611328	2011/09/12	2011/09/13	Dorina Popa
Volatile Organic Compounds in Water	P&T/MS	2610408	N/A	2011/09/13	Jagruti Tailor

Maxxam Job #: B1D8954
Report Date: 2012/10/31

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST W, OAKVILLE

Package 1	17.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

Revised Report 2012/10/31: BTEX data reported from F1/BTEX scan for sample ID MW-503.

Sample KV4365-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample KV4366-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB1D8954

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2610408 JTA	Matrix Spike	4-Bromofluorobenzene	2011/09/13		103	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/13		107	%	70 - 130	
		D8-Toluene	2011/09/13		97	%	70 - 130	
		Benzene	2011/09/13		106	%	70 - 130	
		Ethylbenzene	2011/09/13		102	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/09/13		116	%	70 - 130	
		Toluene	2011/09/13		100	%	70 - 130	
		p+m-Xylene	2011/09/13		102	%	70 - 130	
		o-Xylene	2011/09/13		101	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2011/09/13		103	%	70 - 130
			D4-1,2-Dichloroethane	2011/09/13		104	%	70 - 130
			D8-Toluene	2011/09/13		99	%	70 - 130
	Benzene		2011/09/13		105	%	70 - 130	
	Ethylbenzene		2011/09/13		103	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2011/09/13		117	%	70 - 130	
	Toluene		2011/09/13		101	%	70 - 130	
	p+m-Xylene		2011/09/13		101	%	70 - 130	
	o-Xylene		2011/09/13		100	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2011/09/13		95	%	70 - 130
			D4-1,2-Dichloroethane	2011/09/13		96	%	70 - 130
			D8-Toluene	2011/09/13		100	%	70 - 130
		Benzene	2011/09/13	<0.10		ug/L		
		Ethylbenzene	2011/09/13	<0.10		ug/L		
		Methyl t-butyl ether (MTBE)	2011/09/13	<0.20		ug/L		
		Toluene	2011/09/13	<0.20		ug/L		
		p+m-Xylene	2011/09/13	<0.10		ug/L		
		o-Xylene	2011/09/13	<0.10		ug/L		
		Xylene (Total)	2011/09/13	<0.10		ug/L		
		RPD	Benzene	2011/09/13	NC		%	30
			Ethylbenzene	2011/09/13	NC		%	30
	Toluene		2011/09/13	NC		%	30	
	p+m-Xylene		2011/09/13	NC		%	30	
	o-Xylene		2011/09/13	NC		%	30	
Xylene (Total)	2011/09/13		NC		%	30		
2610966 AAI	Matrix Spike	1,4-Difluorobenzene	2011/09/14		91	%	70 - 130	
		4-Bromofluorobenzene	2011/09/14		102	%	70 - 130	
		D10-Ethylbenzene	2011/09/14		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		95	%	70 - 130	
		Benzene	2011/09/14		101	%	70 - 130	
		Toluene	2011/09/14		115	%	70 - 130	
		Ethylbenzene	2011/09/14		NC	%	70 - 130	
		o-Xylene	2011/09/14		NC	%	70 - 130	
		p+m-Xylene	2011/09/14		115	%	70 - 130	
		F1 (C6-C10)	2011/09/14		NC	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2011/09/14		90	%	70 - 130
			4-Bromofluorobenzene	2011/09/14		102	%	70 - 130
	D10-Ethylbenzene		2011/09/14		94	%	70 - 130	
	D4-1,2-Dichloroethane		2011/09/14		98	%	70 - 130	
	Benzene		2011/09/14		89	%	70 - 130	
	Toluene		2011/09/14		96	%	70 - 130	
	Ethylbenzene		2011/09/14		97	%	70 - 130	
	o-Xylene		2011/09/14		101	%	70 - 130	
	p+m-Xylene		2011/09/14		95	%	70 - 130	
	F1 (C6-C10)		2011/09/14		100	%	70 - 130	
	Method Blank		1,4-Difluorobenzene	2011/09/14		100	%	70 - 130

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB1D8954

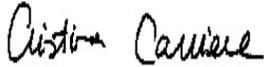
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2610966 AAI	Method Blank	4-Bromofluorobenzene	2011/09/14		98	%	70 - 130	
		D10-Ethylbenzene	2011/09/14		97	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		93	%	70 - 130	
		Benzene	2011/09/14	<0.20			ug/L	
		Toluene	2011/09/14	<0.20			ug/L	
		Ethylbenzene	2011/09/14	<0.20			ug/L	
		o-Xylene	2011/09/14	<0.20			ug/L	
		p+m-Xylene	2011/09/14	<0.40			ug/L	
		Total Xylenes	2011/09/14	<0.40			ug/L	
		F1 (C6-C10)	2011/09/14	<25			ug/L	
		F1 (C6-C10) - BTEX	2011/09/14	<25			ug/L	
		RPD	Benzene	2011/09/15	9.2		%	30
			Toluene	2011/09/15	4.9		%	30
			Ethylbenzene	2011/09/15	4.7		%	30
o-Xylene	2011/09/15		4.3		%	30		
p+m-Xylene	2011/09/15		4.2		%	30		
Total Xylenes	2011/09/15		4.2		%	30		
2611328 DPO	Matrix Spike	o-Terphenyl	2011/09/13		102	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13		96	%	50 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/09/13		84	%	50 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/09/13		88	%	50 - 130	
	Spiked Blank	o-Terphenyl	2011/09/13		102	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13		92	%	70 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/09/13		88	%	70 - 130	
	Method Blank	F4 (C34-C50 Hydrocarbons)	2011/09/13		93	%	70 - 130	
		o-Terphenyl	2011/09/13		104	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13	<100			ug/L	
RPD	F3 (C16-C34 Hydrocarbons)	2011/09/13	<100			ug/L		
	F4 (C34-C50 Hydrocarbons)	2011/09/13	<100			ug/L		
	F2 (C10-C16 Hydrocarbons)	2011/09/13	NC		%	30		
	F3 (C16-C34 Hydrocarbons)	2011/09/13	NC		%	30		
		F4 (C34-C50 Hydrocarbons)	2011/09/13	NC		%	30	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B1D8954

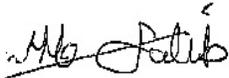
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



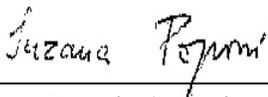
Cristina Carriere, Scientific Services



Medhat Riskallah, Manager, Hydrocarbon Department



Mamdouh Salib, Analyst, Hydrocarbons



Suzana Popovic, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Akruhi Atawala
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3J 0H1
 Phone: (416)635-0087 x 139 Fax: (416)635-5353
 Email: akruhi.atawala@snc-lavalin.com

9-Sep-11 12:31
 MARYAM ARGHANDEH

 BID8954
 SEL ENV-653

PROJECT INFORMATION:

Quotation #: B04714 Shell GESS
 P.O. #:
 Project #: S09125
 Project Name: 3005 Dundas St W, OAKVILLE
 Site #: S09125
 Sampled By: FE/HB

Regulation 153 (2011)

Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other
 Table For RSC

Other Regulations

CCME Sanitary Sewer Bylaw
 Reg. 558 Storm Sewer Bylaw
 MISA Municipality
 PWQO
 Other

SPECIAL INSTRUCTIONS

ANALYSIS REQUESTED (Please be specific):

Regulated Drinking Water? (Y/N)
 Metals Field Filtered? (Y/N)

BTEX
 PHC FI-PY
 MTBE

TURNAROUND

PLEASE PROVIDE AD

Regular (Standard) TAT:
 (will be applied if Rush TAT is not)
 Standard TAT = 5-7 Working days
 Please note: Standard TAT for ce
 days - contact your Project Manag
 Job Specific Rush TAT (if appli
 Date Required:
 Rush Confirmation Number:

Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	BTEX	PHC FI-PY	MTBE	# of Bottles	Notes
1	MW-501	Sept 9/11	12:00 pm	GW	N	N	X	X	X	8	- sediment
2	MW-502		11:15 am	WT	N	N	X	X	X	8	
3	MW-503		11:30 am	WT	N	N	X	X	X	8	- sediment
4	MW-504		11:45 am	WT	N	N	X	X	X	8	- sediment
5											
6											
7											
8											
9											
10											

RELINQUISHED BY: (Signature/Print) H. Bench **Date: (YY/MM/DD)** 11/09/09 **Time:** 12:30 pm

RECEIVED BY: (Signature/Print) ASAD BHADU **Date: (YY/MM/DD)** 2011/09/09 **Time:** 12:31

Jars Used and Not Submitted: 0

Time Sensitive: 17/17

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY WILL RESULT IN POTENTIAL TAT DELAYS. Page 10 of 10

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W, OAKVILLE
Your C.O.C. #: 27913803, 279138-03-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/09/15**CERTIFICATE OF ANALYSIS****MAXXAM JOB #: B1D8956****Received: 2011/09/09, 12:31**

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/09/14	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	1	2011/09/12	2011/09/13	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	1	N/A	2011/09/13	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

./2

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W, OAKVILLE
Your C.O.C. #: 27913803, 279138-03-01

Attention: Akruți Atawala
SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/09/15

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

15 Sep 2011 17:07:54 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 10

Maxxam Job #: B1D8956
 Report Date: 2011/09/15

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KV4372		
Sampling Date		2011/09/09 12:15		
COC Number		279138-03-01		
	Units	BH-99	RDL	QC Batch

Volatiles Organics				
Benzene	ug/L	<0.1	0.1	2610408
Ethylbenzene	ug/L	<0.1	0.1	2610408
Methyl t-butyl ether (MTBE)	ug/L	<0.2	0.2	2610408
Toluene	ug/L	<0.2	0.2	2610408
p+m-Xylene	ug/L	<0.1	0.1	2610408
o-Xylene	ug/L	<0.1	0.1	2610408
Xylene (Total)	ug/L	<0.1	0.1	2610408
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	97		2610408
D4-1,2-Dichloroethane	%	106		2610408
D8-Toluene	%	92		2610408

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1D8956
Report Date: 2011/09/15

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KV4371	KV4372		
Sampling Date		2011/09/09 12:30	2011/09/09 12:15		
COC Number		279138-03-01	279138-03-01		
	Units	TRIP BLANK	BH-99	RDL	QC Batch

BTEX & F1 Hydrocarbons					
Benzene	ug/L	<0.20		0.20	2610966
Toluene	ug/L	<0.20		0.20	2610966
Ethylbenzene	ug/L	<0.20		0.20	2610966
o-Xylene	ug/L	<0.20		0.20	2610966
p+m-Xylene	ug/L	<0.40		0.40	2610966
Total Xylenes	ug/L	<0.40		0.40	2610966
F1 (C6-C10)	ug/L	<25	<25	25	2610966
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	2610966
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L		<100	100	2611738
F3 (C16-C34 Hydrocarbons)	ug/L		<100	100	2611738
F4 (C34-C50 Hydrocarbons)	ug/L		<100	100	2611738
Reached Baseline at C50	ug/L		Yes		2611738
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	93		2610966
4-Bromofluorobenzene	%	100	98		2610966
D10-Ethylbenzene	%	101	103		2610966
D4-1,2-Dichloroethane	%	101	97		2610966
o-Terphenyl	%		106		2611738
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B1D8956
 Report Date: 2011/09/15

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. W, OAKVILLE

Test Summary

Maxxam ID	KV4371	Collected	2011/09/09
Sample ID	TRIP BLANK	Shipped	
Matrix	Water	Received	2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	ABDIKARIM ALI

Maxxam ID	KV4372	Collected	2011/09/09
Sample ID	BH-99	Shipped	
Matrix	Water	Received	2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2610966	N/A	2011/09/14	ABDIKARIM ALI
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611738	2011/09/12	2011/09/13	DORINA POPA
Volatile Organic Compounds in Water	P&T/MS	2610408	N/A	2011/09/13	JAGRUTI TAILOR

Maxxam Job #: B1D8956
Report Date: 2011/09/15

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. W, OAKVILLE

Package 1	17.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB1D8956

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2610408 JTA	Matrix Spike	4-Bromofluorobenzene	2011/09/13		103	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/13		107	%	70 - 130	
		D8-Toluene	2011/09/13		97	%	70 - 130	
		Benzene	2011/09/13		106	%	70 - 130	
		Ethylbenzene	2011/09/13		102	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/09/13		116	%	70 - 130	
		Toluene	2011/09/13		100	%	70 - 130	
		p+m-Xylene	2011/09/13		102	%	70 - 130	
		o-Xylene	2011/09/13		101	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2011/09/13		103	%	70 - 130
			D4-1,2-Dichloroethane	2011/09/13		104	%	70 - 130
			D8-Toluene	2011/09/13		99	%	70 - 130
	Benzene		2011/09/13		105	%	70 - 130	
	Ethylbenzene		2011/09/13		103	%	70 - 130	
	Methyl t-butyl ether (MTBE)		2011/09/13		117	%	70 - 130	
	Toluene		2011/09/13		101	%	70 - 130	
	p+m-Xylene		2011/09/13		101	%	70 - 130	
	o-Xylene		2011/09/13		100	%	70 - 130	
	Method Blank		4-Bromofluorobenzene	2011/09/13		95	%	70 - 130
			D4-1,2-Dichloroethane	2011/09/13		96	%	70 - 130
			D8-Toluene	2011/09/13		100	%	70 - 130
		Benzene	2011/09/13	<0.1		ug/L		
		Ethylbenzene	2011/09/13	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2011/09/13	<0.2		ug/L		
		Toluene	2011/09/13	<0.2		ug/L		
		p+m-Xylene	2011/09/13	<0.1		ug/L		
		o-Xylene	2011/09/13	<0.1		ug/L		
		Xylene (Total)	2011/09/13	<0.1		ug/L		
		RPD	Benzene	2011/09/13	NC		%	30
			Ethylbenzene	2011/09/13	NC		%	30
	Toluene		2011/09/13	NC		%	30	
	p+m-Xylene		2011/09/13	NC		%	30	
	o-Xylene		2011/09/13	NC		%	30	
Xylene (Total)	2011/09/13		NC		%	30		
2610966 AAI	Matrix Spike	1,4-Difluorobenzene	2011/09/14		91	%	70 - 130	
		4-Bromofluorobenzene	2011/09/14		102	%	70 - 130	
		D10-Ethylbenzene	2011/09/14		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		95	%	70 - 130	
		Benzene	2011/09/14		101	%	70 - 130	
		Toluene	2011/09/14		115	%	70 - 130	
		Ethylbenzene	2011/09/14		NC	%	70 - 130	
		o-Xylene	2011/09/14		NC	%	70 - 130	
		p+m-Xylene	2011/09/14		115	%	70 - 130	
		F1 (C6-C10)	2011/09/14		NC	%	70 - 130	
		Spiked Blank	1,4-Difluorobenzene	2011/09/14		90	%	70 - 130
			4-Bromofluorobenzene	2011/09/14		102	%	70 - 130
	D10-Ethylbenzene		2011/09/14		94	%	70 - 130	
	D4-1,2-Dichloroethane		2011/09/14		98	%	70 - 130	
	Benzene		2011/09/14		89	%	70 - 130	
	Toluene		2011/09/14		96	%	70 - 130	
	Ethylbenzene		2011/09/14		97	%	70 - 130	
	o-Xylene		2011/09/14		101	%	70 - 130	
	p+m-Xylene		2011/09/14		95	%	70 - 130	
	F1 (C6-C10)		2011/09/14		100	%	70 - 130	
	Method Blank		1,4-Difluorobenzene	2011/09/14		100	%	70 - 130

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W, OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB1D8956

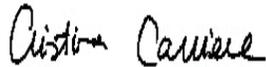
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2610966 AAI	Method Blank	4-Bromofluorobenzene	2011/09/14		98	%	70 - 130		
		D10-Ethylbenzene	2011/09/14		97	%	70 - 130		
		D4-1,2-Dichloroethane	2011/09/14		93	%	70 - 130		
		Benzene	2011/09/14	<0.20			ug/L		
		Toluene	2011/09/14	<0.20			ug/L		
		Ethylbenzene	2011/09/14	<0.20			ug/L		
		o-Xylene	2011/09/14	<0.20			ug/L		
		p+m-Xylene	2011/09/14	<0.40			ug/L		
		Total Xylenes	2011/09/14	<0.40			ug/L		
		F1 (C6-C10)	2011/09/14	<25			ug/L		
		F1 (C6-C10) - BTEX	2011/09/14	<25			ug/L		
		RPD	RPD	Benzene	2011/09/15	9.2		%	40
				Toluene	2011/09/15	4.9		%	40
				Ethylbenzene	2011/09/15	4.7		%	40
o-Xylene	2011/09/15			4.3		%	40		
p+m-Xylene	2011/09/15			4.2		%	40		
Total Xylenes	2011/09/15			4.2		%	40		
2611738 DPO	Matrix Spike	o-Terphenyl	2011/09/13		110	%	30 - 130		
		F2 (C10-C16 Hydrocarbons)	2011/09/13		110	%	60 - 130		
		F3 (C16-C34 Hydrocarbons)	2011/09/13		103	%	60 - 130		
		F4 (C34-C50 Hydrocarbons)	2011/09/13		110	%	60 - 130		
	Spiked Blank	Spiked Blank	o-Terphenyl	2011/09/13		108	%	30 - 130	
			F2 (C10-C16 Hydrocarbons)	2011/09/13		105	%	60 - 130	
			F3 (C16-C34 Hydrocarbons)	2011/09/13		98	%	60 - 130	
			F4 (C34-C50 Hydrocarbons)	2011/09/13		103	%	60 - 130	
	Method Blank	Method Blank	o-Terphenyl	2011/09/13		107	%	30 - 130	
			F2 (C10-C16 Hydrocarbons)	2011/09/13	<100			ug/L	
			F3 (C16-C34 Hydrocarbons)	2011/09/13	<100			ug/L	
			F4 (C34-C50 Hydrocarbons)	2011/09/13	<100			ug/L	
	RPD	RPD	F2 (C10-C16 Hydrocarbons)	2011/09/13	NC		%	50	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B1D8956

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



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700

maxxam.ca

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Akruhi Atawala
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3J 0H1
 Phone: (416)635-0087 x 139 Fax: (416)635-5353
 Email: akruhi.atawala@snclavalin.com

Company Name: MARYAM ARGHANDEH
 Contact Name:
 Address:
 Phone:
 Email:

9-Sep-11 12:31
 B1D8956
 SEL ENV-653

PROJECT INFORMATION:

Quotation #: B04744 Shell GESS
 P.O. #:
 Project #: S09125
 Project Name: 3005 Dundas St. W, Oakville
 Site #: S09125
 Sampled By: FE/HB.

MAXX
 CHAIN OF
 C#2791

Regulation 153 (2011)

Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other
 Table _____ For RSC

Other Regulations

CCME Sanitary Sewer Bylaw
 Reg. 558 Storm Sewer Bylaw
 MISA Municipality _____
 PWQO
 Other _____

SPECIAL INSTRUCTIONS

ANALYSIS REQUESTED (Please be specific):

Regulated Drinking Water? (Y/N)
 Metals Field Filtered? (Y/N)

PHC FI-F4
 MTBE

TURN

PLEASE PROVIDE:
 Regular (Standard) TAT:
 (will be applied if Rush TAT is not selected)
 Standard TAT = 5-7 Working Days
 Please note: Standard TAT is subject to change without notice.
 Job Specific Rush TAT (if applicable):
 Date Required:
 Rush Confirmation Number:

Include Criteria on Certificate of Analysis (Y/N)? _____

Note: For MCE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC FI-F4	MTBE	# of Bottles
1	TRIP BLANK	Sept 9/11	12:30 pm	water	N	-	X		3
2	BH-99	↓	12:15 pm	↓	N	-	X	X	8
3									
4									
5									
6									
7									
8									
9									
10									

***RELINQUISHED BY:** (Signature/Print) **RECEIVED BY:** (Signature/Print)

H. Bench 11/09/09 12:35 pm CHARLIE ASAD BHARDU 20/09/09 12:31

Jars Used and Not Submitted: 0

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Page 10 of 10
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE
 Your C.O.C. #: 27913801, 279138-01-01

Attention: Akruți Atawala
 SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/09/16

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1D9107
Received: 2011/09/09, 12:31

Sample Matrix: Water
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2011/09/14	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	6	2011/09/13	2011/09/13	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	6	N/A	2011/09/14	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST W, OAKVILLE
Your C.O.C. #: 27913801, 279138-01-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/09/16

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

16 Sep 2011 16:11:26 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 13

Maxxam Job #: B1D9107
 Report Date: 2011/09/16

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KV5019	KV5020		KV5021		KV5022		
Sampling Date		2011/09/09 11:30	2011/09/09 11:30		2011/09/09 10:15		2011/09/09 10:30		
COC Number		279138-01-01	279138-01-01		279138-01-01		279138-01-01		
	Units	MW-401	BH-98	RDL	MW-402	RDL	MW-403	RDL	QC Batch

Volatile Organics									
Benzene	ug/L	0.4	0.4	0.1	<0.5	0.5	<0.1	0.1	2611137
Ethylbenzene	ug/L	0.1	0.1	0.1	<0.5	0.5	<0.1	0.1	2611137
Methyl t-butyl ether (MTBE)	ug/L	<2 (1)	<2 (1)	2	55	1	6.5	0.2	2611137
Toluene	ug/L	0.2	<0.2	0.2	<1	1	<0.2	0.2	2611137
p+m-Xylene	ug/L	0.6	0.6	0.1	<0.5	0.5	<0.1	0.1	2611137
o-Xylene	ug/L	0.1	0.1	0.1	<0.5	0.5	<0.1	0.1	2611137
Xylene (Total)	ug/L	0.8	0.8	0.1	<0.5	0.5	<0.1	0.1	2611137
Surrogate Recovery (%)									
4-Bromofluorobenzene	%	101	99		98		100		2611137
D4-1,2-Dichloroethane	%	89	88		89		89		2611137
D8-Toluene	%	101	100		99		99		2611137

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Detection limit was raised due to matrix interferences.

Maxxam Job #: B1D9107
 Report Date: 2011/09/16

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		KV5023		KV5024		
Sampling Date		2011/09/09 10:45		2011/09/09 11:00		
COC Number		279138-01-01		279138-01-01		
	Units	MW-404	RDL	MW-405	RDL	QC Batch

Volatile Organics						
Benzene	ug/L	<0.2	0.2	<0.1	0.1	2611137
Ethylbenzene	ug/L	<0.2	0.2	<0.1	0.1	2611137
Methyl t-butyl ether (MTBE)	ug/L	11	0.4	4.4	0.2	2611137
Toluene	ug/L	<0.4	0.4	<0.2	0.2	2611137
p+m-Xylene	ug/L	<0.2	0.2	<0.1	0.1	2611137
o-Xylene	ug/L	<0.2	0.2	<0.1	0.1	2611137
Xylene (Total)	ug/L	<0.2	0.2	<0.1	0.1	2611137
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	98		99		2611137
D4-1,2-Dichloroethane	%	87		88		2611137
D8-Toluene	%	99		100		2611137

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1D9107
 Report Date: 2011/09/16

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KV5019	KV5020	KV5021	KV5022		
Sampling Date		2011/09/09 11:30	2011/09/09 11:30	2011/09/09 10:15	2011/09/09 10:30		
COC Number		279138-01-01	279138-01-01	279138-01-01	279138-01-01		
	Units	MW-401	BH-98	MW-402	MW-403	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	36	<25	<25	<25	25	2611806
F1 (C6-C10) - BTEX	ug/L	35	<25	<25	<25	25	2611806
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611761
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611761
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2611761
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2611761
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	99	91	94	90		2611806
4-Bromofluorobenzene	%	96	100	98	98		2611806
D10-Ethylbenzene	%	101	104	101	101		2611806
D4-1,2-Dichloroethane	%	100	92	97	94		2611806
o-Terphenyl	%	99	97	95	94		2611761

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1D9107
 Report Date: 2011/09/16

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		KV5023	KV5024		
Sampling Date		2011/09/09 10:45	2011/09/09 11:00		
COC Number		279138-01-01	279138-01-01		
	Units	MW-404	MW-405	RDL	QC Batch

BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	2611806
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	2611806
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2611761
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	100	2611761
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	100	2611761
Reached Baseline at C50	ug/L	Yes	Yes		2611761
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	96	99		2611806
4-Bromofluorobenzene	%	98	101		2611806
D10-Ethylbenzene	%	97	95		2611806
D4-1,2-Dichloroethane	%	98	99		2611806
o-Terphenyl	%	97	97		2611761
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B1D9107
 Report Date: 2011/09/16

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST W, OAKVILLE

Test Summary

Maxxam ID	KV5024	Collected	2011/09/09
Sample ID	MW-405	Shipped	
Matrix	Water	Received	2011/09/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2611806	N/A	2011/09/14	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2611761	2011/09/13	2011/09/13	JOLANTA KAWZOWICZ
Volatile Organic Compounds in Water	P&T/MS	2611137	N/A	2011/09/14	SARAH LAM

Maxxam Job #: B1D9107
Report Date: 2011/09/16

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST W, OAKVILLE

Package 1	18.7°C
-----------	--------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

F1 BTEX :

The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis.

Sample KV5021-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample KV5023-01: VOC Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report
 Maxxam Job Number: MB1D9107

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2611137 SLM	Matrix Spike	4-Bromofluorobenzene	2011/09/14		99	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		93	%	70 - 130	
		D8-Toluene	2011/09/14		101	%	70 - 130	
		Benzene	2011/09/14		97	%	70 - 130	
		Ethylbenzene	2011/09/14		102	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/09/14		96	%	70 - 130	
		Toluene	2011/09/14		99	%	70 - 130	
		p+m-Xylene	2011/09/14		101	%	70 - 130	
		o-Xylene	2011/09/14		99	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2011/09/14		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		99	%	70 - 130	
		D8-Toluene	2011/09/14		100	%	70 - 130	
		Benzene	2011/09/14		99	%	70 - 130	
		Ethylbenzene	2011/09/14		103	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/09/14		103	%	70 - 130	
		Toluene	2011/09/14		101	%	70 - 130	
		p+m-Xylene	2011/09/14		101	%	70 - 130	
		o-Xylene	2011/09/14		100	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2011/09/14		98	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		97	%	70 - 130	
		D8-Toluene	2011/09/14		100	%	70 - 130	
		Benzene	2011/09/14	<0.1		ug/L		
		Ethylbenzene	2011/09/14	<0.1		ug/L		
		Methyl t-butyl ether (MTBE)	2011/09/14	<0.2		ug/L		
		Toluene	2011/09/14	<0.2		ug/L		
		p+m-Xylene	2011/09/14	<0.1		ug/L		
		o-Xylene	2011/09/14	<0.1		ug/L		
		Xylene (Total)	2011/09/14	<0.1		ug/L		
		RPD	Benzene	2011/09/14	NC		%	30
			Ethylbenzene	2011/09/14	NC		%	30
			Methyl t-butyl ether (MTBE)	2011/09/14	NC		%	30
			Toluene	2011/09/14	NC		%	30
			p+m-Xylene	2011/09/14	NC		%	30
o-Xylene	2011/09/14		NC		%	30		
2611761 JKA	Matrix Spike	o-Terphenyl	2011/09/13		112	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13		102	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/09/13		102	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/09/13		104	%	60 - 130	
	Spiked Blank	o-Terphenyl	2011/09/13		111	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13		99	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/09/13		98	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/09/13		102	%	60 - 130	
	Method Blank	o-Terphenyl	2011/09/13		109	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/09/13	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/09/13	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/09/13	<100		ug/L		
		RPD	F2 (C10-C16 Hydrocarbons)	2011/09/13	NC		%	50
	F3 (C16-C34 Hydrocarbons)		2011/09/13	NC		%	50	
	F4 (C34-C50 Hydrocarbons)		2011/09/13	NC		%	50	
2611806 GRU	Matrix Spike	1,4-Difluorobenzene	2011/09/14		102	%	70 - 130	
		4-Bromofluorobenzene	2011/09/14		101	%	70 - 130	
		D10-Ethylbenzene	2011/09/14		103	%	70 - 130	
		D4-1,2-Dichloroethane	2011/09/14		99	%	70 - 130	
		F1 (C6-C10)	2011/09/14		110	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST W, OAKVILLE

Quality Assurance Report (Continued)

Maxxam Job Number: MB1D9107

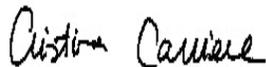
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2611806 GRU	Spiked Blank	1,4-Difluorobenzene	2011/09/14		94	%	70 - 130
		4-Bromofluorobenzene	2011/09/14		100	%	70 - 130
		D10-Ethylbenzene	2011/09/14		104	%	70 - 130
		D4-1,2-Dichloroethane	2011/09/14		94	%	70 - 130
		F1 (C6-C10)	2011/09/14		102	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2011/09/14		104	%	70 - 130
		4-Bromofluorobenzene	2011/09/14		93	%	70 - 130
		D10-Ethylbenzene	2011/09/14		99	%	70 - 130
		D4-1,2-Dichloroethane	2011/09/14		95	%	70 - 130
		F1 (C6-C10)	2011/09/14	<25		ug/L	
		F1 (C6-C10) - BTEX	2011/09/14	<25		ug/L	
	RPD	F1 (C6-C10)	2011/09/14	NC		%	40
		F1 (C6-C10) - BTEX	2011/09/14	NC		%	40

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

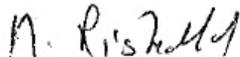
Validation Signature Page

Maxxam Job #: B1D9107

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



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#21644 SNC-Lavalin Environment	Company Name:	/	Quotation #:	B04774 Shell GESS
Contact Name:	Akruti Atawala	Contact Name:	/	P.O. #:	
Address:	20 DeBoers Drive Suite 200 Toronto ON M3J 0H1	Address:	/	Project #:	S09125
Phone:	(416)635-0087 x 139 Fax: (416)635-5353	Phone:	/	Project Name:	365 Dundas St W, OAKVILLE
Email:	akruti.atawala@snc-lavalin.com	Email:	/	Site #:	S09125
				Sampled By:	FE/HB

Regulation 153 (2011)	Other Regulations	SPECIAL INSTRUCTIONS	ANALYSIS REQUESTED (Please be specific)								
<input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table 4	<input type="checkbox"/> Res/Park <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> CCME <input type="checkbox"/> Reg 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other		<input type="checkbox"/> Medium/Fine <input type="checkbox"/> Coarse	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Municipality						

Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	BTEX	PHC FI-FH	MTBE	# of Bottles
1	MW-401	Sept. 9/09	11:30 am	GW	N	-	X	X	X	8
2	BH-98		11:30 am	WT	N	-	X	X	X	8
3	MW-402		10:15 am	WT	N	-	X	X	X	8
4	MW-403		10:30 am	WT	N	-	X	X	X	8
5	MW-404		10:45 am	WT	N	-	X	X	X	8
6	MW-405		11:00 am	WT	N	-	X	X	X	8
7				WT						
8				WT						
9				WT						
10				WT						

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted
<i>A. Bench</i>	11/09/09	12:30 pm	<i>ASAD BHADOU</i>	20/09/09	12:31	0

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY RECORD WILL RESULT IN ANALYTICAL TAT DELAYS.
 Page 13 of 13
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON
 Your C.O.C. #: 31834202, 318342-02-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/12/20

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1J4850

Received: 2011/12/09, 16:05

Sample Matrix: Water
 # Samples Received: 9

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	9	N/A	2011/12/16	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	9	2011/12/14	2011/12/15	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	8	N/A	2011/12/14	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2011/12/15	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: DUNDAS ST., OAKVILLE, ON
Your C.O.C. #: 31834202, 318342-02-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/12/20

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh
20 Dec 2011 09:52:27 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 15

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

 SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		LX9505	LX9506	LX9507	LX9508		
Sampling Date		2011/12/07 14:30	2011/12/07 14:45	2011/12/07 15:00	2011/12/07 15:15		
COC Number		318342-02-01	318342-02-01	318342-02-01	318342-02-01		
	Units	MW - 401	MW - 402	MW - 403	MW - 404	RDL	QC Batch

Volatile Organics							
Benzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2709965
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2709965
Methyl t-butyl ether (MTBE)	ug/L	<0.20	95 (1)	0.31	21	0.20	2709965
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	2709965
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2709965
o-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2709965
Xylene (Total)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2709965
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	95	95	93	94		2709965
D4-1,2-Dichloroethane	%	92	94	93	94		2709965
D8-Toluene	%	98	99	100	96		2709965

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) The result reported is beyond the appropriate range of the instrument. Therefore, this result should be viewed with discretion. The results for the analysis of duplicate vials shows significantly different results for MTBE. Since the differences for this compound were greater than that due to precision of the method, this appears to be due to differences in the contents of the vials. The third vial provided was used for prescreening leaving no vials available for a confirmation analysis.

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		LX9509	LX9510	LX9511		LX9512		
Sampling Date		2011/12/07 15:30	2011/12/07 15:45	2011/12/07 16:00		2011/12/07 16:15		
COC Number		318342-02-01	318342-02-01	318342-02-01		318342-02-01		
	Units	MW - 405	MW - 501	MW - 502	RDL	MW - 503	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	<0.10	<0.10	<0.10	0.10	<1.0	1.0	2709965
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	0.10	<1.0	1.0	2709965
Methyl t-butyl ether (MTBE)	ug/L	1.8	3.3	2.9	0.20	160	2.0	2709965
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	<2.0	2.0	2709965
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	0.10	<1.0	1.0	2709965
o-Xylene	ug/L	<0.10	<0.10	<0.10	0.10	<1.0	1.0	2709965
Xylene (Total)	ug/L	<0.10	<0.10	<0.10	0.10	<1.0	1.0	2709965
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	94	95	95		93		2709965
D4-1,2-Dichloroethane	%	94	90	92		92		2709965
D8-Toluene	%	98	98	98		100		2709965

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		LX9513		
Sampling Date		2011/12/07 16:30		
COC Number		318342-02-01		
	Units	MW - 504	RDL	QC Batch

Volatiles Organics				
Benzene	ug/L	<0.10	0.10	2709965
Ethylbenzene	ug/L	<0.10	0.10	2709965
Methyl t-butyl ether (MTBE)	ug/L	6.5	0.20	2709965
Toluene	ug/L	<0.20	0.20	2709965
p+m-Xylene	ug/L	<0.10	0.10	2709965
o-Xylene	ug/L	<0.10	0.10	2709965
Xylene (Total)	ug/L	<0.10	0.10	2709965
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	96		2709965
D4-1,2-Dichloroethane	%	95		2709965
D8-Toluene	%	98		2709965

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		LX9505	LX9505	LX9506	LX9507		
Sampling Date		2011/12/07 14:30	2011/12/07 14:30	2011/12/07 14:45	2011/12/07 15:00		
COC Number		318342-02-01	318342-02-01	318342-02-01	318342-02-01		
	Units	MW - 401	MW - 401 Lab-Dup	MW - 402	MW - 403	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2715311
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2715311
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	<100	100	2713467
F3 (C16-C34 Hydrocarbons)	ug/L	<100		<100	<100	100	2713467
F4 (C34-C50 Hydrocarbons)	ug/L	<100		<100	<100	100	2713467
Reached Baseline at C50	ug/L	Yes		Yes	Yes		2713467
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	103	100	102	103		2715311
4-Bromofluorobenzene	%	101	100	101	100		2715311
D10-Ethylbenzene	%	84	86	88	90		2715311
D4-1,2-Dichloroethane	%	96	98	96	98		2715311
o-Terphenyl	%	104		118	107		2713467
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		LX9508	LX9509	LX9510	LX9511		
Sampling Date		2011/12/07 15:15	2011/12/07 15:30	2011/12/07 15:45	2011/12/07 16:00		
COC Number		318342-02-01	318342-02-01	318342-02-01	318342-02-01		
	Units	MW - 404	MW - 405	MW - 501	MW - 502	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2715311
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2715311
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2713467
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2713467
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2713467
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2713467
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	102	103	104	104		2715311
4-Bromofluorobenzene	%	99	102	100	100		2715311
D10-Ethylbenzene	%	83	93	90	87		2715311
D4-1,2-Dichloroethane	%	97	99	97	100		2715311
o-Terphenyl	%	106	107	108	102		2713467

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B1J4850
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: DUNDAS ST., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		LX9512	LX9513		
Sampling Date		2011/12/07 16:15	2011/12/07 16:30		
COC Number		318342-02-01	318342-02-01		
	Units	MW - 503	MW - 504	RDL	QC Batch

BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	2715311
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	2715311
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2713467
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	100	2713467
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	100	2713467
Reached Baseline at C50	ug/L	Yes	Yes		2713467
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	100	103		2715311
4-Bromofluorobenzene	%	100	100		2715311
D10-Ethylbenzene	%	86	83		2715311
D4-1,2-Dichloroethane	%	102	99		2715311
o-Terphenyl	%	127	103		2713467
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B1J4850
Report Date: 2011/12/20

SNC-Lavalin Environment
Client Project #: S09125
Site Location: DUNDAS ST., OAKVILLE, ON

Test Summary

Maxxam ID LX9505
Sample ID MW - 401
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9505 Dup
Sample ID MW - 401
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC

Maxxam ID LX9506
Sample ID MW - 402
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9507
Sample ID MW - 403
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/15	SARAH LAM

Maxxam ID LX9508
Sample ID MW - 404
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9509
Sample ID MW - 405
Matrix Water
Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam Job #: B1J4850
Report Date: 2011/12/20

SNC-Lavalin Environment
Client Project #: S09125
Site Location: DUNDAS ST., OAKVILLE, ON

Test Summary

Maxxam ID LX9510
Sample ID MW - 501
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9511
Sample ID MW - 502
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9512
Sample ID MW - 503
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam ID LX9513
Sample ID MW - 504
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2715311	N/A	2011/12/16	SUZANA POPOVIC
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2713467	2011/12/14	2011/12/15	NICOLETA CIUBLEA
Volatile Organic Compounds in Water	P&T/MS	2709965	N/A	2011/12/14	SARAH LAM

Maxxam Job #: B1J4850
Report Date: 2011/12/20

SNC-Lavalin Environment
Client Project #: S09125
Site Location: DUNDAS ST., OAKVILLE, ON

Package 1	5.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Analysis: All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

Revised Report: Some parameters were toggled off for VOC as per COC and client's request.

Sample LX9512-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: DUNDAS ST., OAKVILLE, ON

Quality Assurance Report
 Maxxam Job Number: MB1J4850

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2709965 SLM	Matrix Spike	4-Bromofluorobenzene	2011/12/14		102	%	70 - 130	
		D4-1,2-Dichloroethane	2011/12/14		93	%	70 - 130	
		D8-Toluene	2011/12/14		103	%	70 - 130	
		Benzene	2011/12/14		107	%	70 - 130	
		Ethylbenzene	2011/12/14		110	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/12/14		106	%	70 - 130	
		Toluene	2011/12/14		103	%	70 - 130	
		p+m-Xylene	2011/12/14		109	%	70 - 130	
		o-Xylene	2011/12/14		110	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2011/12/14		101	%	70 - 130	
		D4-1,2-Dichloroethane	2011/12/14		91	%	70 - 130	
		D8-Toluene	2011/12/14		104	%	70 - 130	
		Benzene	2011/12/14		97	%	70 - 130	
		Ethylbenzene	2011/12/14		100	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2011/12/14		94	%	70 - 130	
		Toluene	2011/12/14		96	%	70 - 130	
		p+m-Xylene	2011/12/14		99	%	70 - 130	
		o-Xylene	2011/12/14		99	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2011/12/14		94	%	70 - 130	
		D4-1,2-Dichloroethane	2011/12/14		94	%	70 - 130	
		D8-Toluene	2011/12/14		97	%	70 - 130	
		Benzene	2011/12/14	<0.10		ug/L		
		Ethylbenzene	2011/12/14	<0.10		ug/L		
		Methyl t-butyl ether (MTBE)	2011/12/14	<0.20		ug/L		
		Toluene	2011/12/14	<0.20		ug/L		
		p+m-Xylene	2011/12/14	<0.10		ug/L		
		o-Xylene	2011/12/14	<0.10		ug/L		
		Xylene (Total)	2011/12/14	<0.10		ug/L		
		RPD	Benzene	2011/12/14	NC		%	30
			Ethylbenzene	2011/12/14	NC		%	30
			Methyl t-butyl ether (MTBE)	2011/12/14	NC		%	30
			Toluene	2011/12/14	NC		%	30
			p+m-Xylene	2011/12/14	NC		%	30
o-Xylene	2011/12/14		NC		%	30		
2713467 NCI	Matrix Spike	o-Terphenyl	2011/12/14		108	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/12/14		110	%	50 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/12/14		108	%	50 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/12/14		102	%	50 - 130	
	Spiked Blank	o-Terphenyl	2011/12/14		105	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/12/14		101	%	70 - 130	
		F3 (C16-C34 Hydrocarbons)	2011/12/14		103	%	70 - 130	
		F4 (C34-C50 Hydrocarbons)	2011/12/14		99	%	70 - 130	
	Method Blank	o-Terphenyl	2011/12/14		109	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2011/12/14	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/12/14	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/12/14	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2011/12/15	NC		%	30	
		F3 (C16-C34 Hydrocarbons)	2011/12/15	NC		%	30	
		F4 (C34-C50 Hydrocarbons)	2011/12/15	NC		%	30	
2715311 SPV	Matrix Spike [LX9505-02]	1,4-Difluorobenzene	2011/12/16		101	%	70 - 130	
		4-Bromofluorobenzene	2011/12/16		98	%	70 - 130	
		D10-Ethylbenzene	2011/12/16		82	%	70 - 130	
		D4-1,2-Dichloroethane	2011/12/16		96	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: DUNDAS ST., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB1J4850

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2715311 SPV	Matrix Spike [LX9505-02]	F1 (C6-C10)	2011/12/16		91	%	70 - 130
		1,4-Difluorobenzene	2011/12/16		102	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2011/12/16		100	%	70 - 130
		D10-Ethylbenzene	2011/12/16		83	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/16		95	%	70 - 130
		F1 (C6-C10)	2011/12/16		109	%	70 - 130
		1,4-Difluorobenzene	2011/12/16		100	%	70 - 130
		4-Bromofluorobenzene	2011/12/16		98	%	70 - 130
	Method Blank	D10-Ethylbenzene	2011/12/16		87	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/16		96	%	70 - 130
		F1 (C6-C10)	2011/12/16	<25		ug/L	
		F1 (C6-C10) - BTEX	2011/12/16	<25		ug/L	
	RPD [LX9505-02]	F1 (C6-C10)	2011/12/16	NC		%	30
		F1 (C6-C10) - BTEX	2011/12/16	NC		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

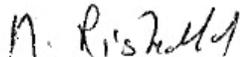
Validation Signature Page

Maxxam Job #: B1J4850

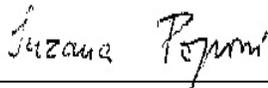
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:	REPORT INFORMATION (if differs from invoice):	PROJECT INFORMATION:
Company Name: #21644 SNC-Lavalin Environment	Company Name: #13786 SNC-Lavalin Environment	Quotation #: B10288 S/ell-Gr85
Contact Name: Sheri Schembri	Contact Name: Akuti Atawala	P.O. #: -
Address: 20 DeBoers Drive Suite 200	Address: 20 DeBoers Drive Suite 200	Project #: S09125
Toronto ON M3J 0H1	Toronto ON M3J 0H1	Project Name: Dundas St. Colville
Phone: (416)635-0087 x111 Fax: (416)635-5353	Phone: (416)635-0087 x139 Fax: (416)635-5353	Site #: -
Email: sheri.schembri@snclavalin.com	Email: akuti.atawala@snclavalin.com	Sampled By: RF

Regulation 153 (2011)	Other Regulations	SPECIAL INSTRUCTIONS	ANALYSIS REQUESTED (Please be specific):
<input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table _____	<input type="checkbox"/> Res/Park <input checked="" type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> CCME <input type="checkbox"/> Reg. 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other _____	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw Municipality _____

Include Criteria on Certificate of Analysis (Y/N)? _____
 Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	ANALYSIS REQUESTED (Please be specific):			# of Bottles
							MTBE	F1 & BTEX	F2-F4 in Water	
1	MW-401	Dec-7/2011	2:30p	WT	N	-	X	X	X	8
2	MW-402		2:45p	WT	N	-	X	X	X	8
3	MW-403		3:00pm	WT	N	-	X	X	X	8
4	MW-404		3:15pm	WT	N	-	X	X	X	8
5	MW-405		3:30pm	WT	N	-	X	X	X	8
6	MW-501		3:45pm	WT	N	-	X	X	X	8
7	MW-502		4:00pm	WT	N	-	X	X	X	8
8	MW-503		4:15pm	WT	N	-	X	X	X	8
9	MW-504		4:30pm	WT	N	-	X	X	X	8
10										

RELINQUISHED BY: (Signature/Print) <i>[Signature]</i> / Rob Fink...	Date: (YY/MM/DD) 11/12/07	Time: 7:00pm	RECEIVED BY: (Signature/Print) <i>[Signature]</i> / Akuti Atawala	Date: (YY/MM/DD) 2011/12/09	Time: 16:00	# Jars Used and Not Submitted 8	Time Sensitive
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* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
 Your C.O.C. #: 31834201, 318342-01-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2011/12/20

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B1J4875

Received: 2011/12/09, 16:05

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	2	N/A	2011/12/15	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2011/12/16	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	2	2011/12/14	2011/12/14	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2011/12/15	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON
Your C.O.C. #: 31834201, 318342-01-01

Attention: Akruți Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2011/12/20

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

20 Dec 2011 10:12:40 -05:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Page 2 of 10

Maxxam Job #: B1J4875
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		LX9642	LX9642	LX9643	LX9644		
Sampling Date		2011/12/07 14:30	2011/12/07 14:30	2011/12/07 15:35	2011/12/07 17:00		
COC Number		318342-01-01	318342-01-01	318342-01-01	318342-01-01		
	Units	BH-98	BH-98 Lab-Dup	BH-99	TRIP BLANK	RDL	QC Batch

Volatile Organics							
Benzene	ug/L	<0.10	0.14	<0.10	<0.10	0.10	2711514
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2711514
Methyl t-butyl ether (MTBE)	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	2711514
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	2711514
p+m-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2711514
o-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2711514
Xylene (Total)	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2711514
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	96	97	94	94		2711514
D4-1,2-Dichloroethane	%	89	91	93	95		2711514
D8-Toluene	%	97	95	99	100		2711514

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: B1J4875
 Report Date: 2011/12/20

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		LX9642	LX9642	LX9643		LX9644		
Sampling Date		2011/12/07 14:30	2011/12/07 14:30	2011/12/07 15:35		2011/12/07 17:00		
COC Number		318342-01-01	318342-01-01	318342-01-01		318342-01-01		
	Units	BH-98	BH-98 Lab-Dup	BH-99	QC Batch	TRIP BLANK	RDL	QC Batch

BTEX & F1 Hydrocarbons								
F1 (C6-C10)	ug/L	<25	<25	<25	2714007	<25	25	2714131
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	2714007	<25	25	2714131
F2-F4 Hydrocarbons								
F2 (C10-C16 Hydrocarbons)	ug/L	<100		<100	2712436		100	
F3 (C16-C34 Hydrocarbons)	ug/L	<100		<100	2712436		100	
F4 (C34-C50 Hydrocarbons)	ug/L	<100		<100	2712436		100	
Reached Baseline at C50	ug/L	Yes		Yes	2712436			
Surrogate Recovery (%)								
1,4-Difluorobenzene	%	103	102	106	2714007	95		2714131
4-Bromofluorobenzene	%	99	97	87	2714007	93		2714131
D10-Ethylbenzene	%	110	113	111	2714007	107		2714131
D4-1,2-Dichloroethane	%	102	103	104	2714007	87		2714131
o-Terphenyl	%	107		108	2712436			

RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: B1J4875
Report Date: 2011/12/20

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Test Summary

Maxxam ID LX9642
Sample ID BH-98
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2714007	N/A	2011/12/15	DOMNICA ANDRONESCU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2712436	2011/12/14	2011/12/14	JOLANTA KAWZOWICZ
Volatile Organic Compounds in Water	P&T/MS	2711514	N/A	2011/12/15	SARAH LAM

Maxxam ID LX9642 Dup
Sample ID BH-98
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2714007	N/A	2011/12/15	DOMNICA ANDRONESCU
Volatile Organic Compounds in Water	P&T/MS	2711514	N/A	2011/12/15	SARAH LAM

Maxxam ID LX9643
Sample ID BH-99
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2714007	N/A	2011/12/15	DOMNICA ANDRONESCU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2712436	2011/12/14	2011/12/14	JOLANTA KAWZOWICZ
Volatile Organic Compounds in Water	P&T/MS	2711514	N/A	2011/12/15	SARAH LAM

Maxxam ID LX9644
Sample ID TRIP BLANK
Matrix Water

Collected 2011/12/07
Shipped
Received 2011/12/09

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2714131	N/A	2011/12/16	LINCOLN RAMDAHIN
Volatile Organic Compounds in Water	P&T/MS	2711514	N/A	2011/12/15	SARAH LAM

Maxxam Job #: B1J4875
Report Date: 2011/12/20

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Package 1	1.7°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Analysis: All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

Revised Report: Site location was revised. Some VOC parameters were toggled off as per the COC and client's request.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report
 Maxxam Job Number: MB1J4875

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2711514 SLM	Matrix Spike [LX9643-02]	4-Bromofluorobenzene	2011/12/15		100	%	70 - 130		
		D4-1,2-Dichloroethane	2011/12/15		83	%	70 - 130		
		D8-Toluene	2011/12/15		107	%	70 - 130		
		Benzene	2011/12/15		100	%	70 - 130		
		Ethylbenzene	2011/12/15		106	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2011/12/15		90	%	70 - 130		
		Toluene	2011/12/15		101	%	70 - 130		
		p+m-Xylene	2011/12/15		105	%	70 - 130		
		o-Xylene	2011/12/15		104	%	70 - 130		
	Spiked Blank	4-Bromofluorobenzene	2011/12/15		100	%	70 - 130		
		D4-1,2-Dichloroethane	2011/12/15		91	%	70 - 130		
		D8-Toluene	2011/12/15		106	%	70 - 130		
		Benzene	2011/12/15		93	%	70 - 130		
		Ethylbenzene	2011/12/15		97	%	70 - 130		
		Methyl t-butyl ether (MTBE)	2011/12/15		96	%	70 - 130		
		Toluene	2011/12/15		94	%	70 - 130		
		p+m-Xylene	2011/12/15		97	%	70 - 130		
		o-Xylene	2011/12/15		97	%	70 - 130		
	Method Blank	4-Bromofluorobenzene	2011/12/15		92	%	70 - 130		
		D4-1,2-Dichloroethane	2011/12/15		97	%	70 - 130		
		D8-Toluene	2011/12/15		100	%	70 - 130		
		Benzene	2011/12/15	<0.10			ug/L		
		Ethylbenzene	2011/12/15	<0.10			ug/L		
		Methyl t-butyl ether (MTBE)	2011/12/15	<0.20			ug/L		
		Toluene	2011/12/15	<0.20			ug/L		
		p+m-Xylene	2011/12/15	<0.10			ug/L		
		o-Xylene	2011/12/15	<0.10			ug/L		
		Xylene (Total)	2011/12/15	<0.10			ug/L		
		RPD [LX9642-02]	Benzene	2011/12/15	NC			%	30
			Ethylbenzene	2011/12/15	NC			%	30
			Methyl t-butyl ether (MTBE)	2011/12/15	NC			%	30
			Toluene	2011/12/15	NC			%	30
			p+m-Xylene	2011/12/15	NC			%	30
o-Xylene	2011/12/15		NC			%	30		
2712436 JKA	Matrix Spike	o-Terphenyl	2011/12/14		103	%	50 - 130		
		F2 (C10-C16 Hydrocarbons)	2011/12/14		93	%	50 - 130		
		F3 (C16-C34 Hydrocarbons)	2011/12/14		98	%	50 - 130		
		F4 (C34-C50 Hydrocarbons)	2011/12/14		86	%	50 - 130		
	Spiked Blank	o-Terphenyl	2011/12/14		103	%	50 - 130		
		F2 (C10-C16 Hydrocarbons)	2011/12/14		92	%	70 - 130		
		F3 (C16-C34 Hydrocarbons)	2011/12/14		98	%	70 - 130		
		F4 (C34-C50 Hydrocarbons)	2011/12/14		87	%	70 - 130		
	Method Blank	o-Terphenyl	2011/12/14		102	%	50 - 130		
		F2 (C10-C16 Hydrocarbons)	2011/12/14	<100			ug/L		
		F3 (C16-C34 Hydrocarbons)	2011/12/14	<100			ug/L		
		F4 (C34-C50 Hydrocarbons)	2011/12/14	<100			ug/L		
		RPD	F2 (C10-C16 Hydrocarbons)	2011/12/14	NC			%	30
	F3 (C16-C34 Hydrocarbons)		2011/12/14	NC			%	30	
	F4 (C34-C50 Hydrocarbons)		2011/12/14	NC			%	30	
2714007 DAN	Matrix Spike [LX9642-03]		1,4-Difluorobenzene	2011/12/15		103	%	70 - 130	
			4-Bromofluorobenzene	2011/12/15		104	%	70 - 130	
			D10-Ethylbenzene	2011/12/15		107	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. W., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB1J4875

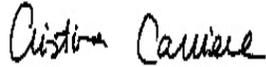
QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2714007 DAN	Matrix Spike [LX9642-03]	D4-1,2-Dichloroethane	2011/12/15		106	%	70 - 130
		F1 (C6-C10)	2011/12/15		80	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2011/12/15		99	%	70 - 130
		4-Bromofluorobenzene	2011/12/15		103	%	70 - 130
		D10-Ethylbenzene	2011/12/15		101	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/15		108	%	70 - 130
		F1 (C6-C10)	2011/12/15		98	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2011/12/15		101	%	70 - 130
		4-Bromofluorobenzene	2011/12/15		96	%	70 - 130
		D10-Ethylbenzene	2011/12/15		107	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/15		108	%	70 - 130
		F1 (C6-C10)	2011/12/15	<25		ug/L	
	RPD [LX9642-03]	F1 (C6-C10) - BTEX	2011/12/15	<25		ug/L	
		F1 (C6-C10)	2011/12/15	NC		%	30
		F1 (C6-C10) - BTEX	2011/12/15	NC		%	30
F1 (C6-C10) - BTEX		2011/12/15	NC		%	30	
2714131 LRA	Matrix Spike	1,4-Difluorobenzene	2011/12/15		98	%	70 - 130
		4-Bromofluorobenzene	2011/12/15		94	%	70 - 130
		D10-Ethylbenzene	2011/12/15		105	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/15		90	%	70 - 130
		F1 (C6-C10)	2011/12/15		72	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2011/12/15		98	%	70 - 130
		4-Bromofluorobenzene	2011/12/15		97	%	70 - 130
		D10-Ethylbenzene	2011/12/15		103	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/15		92	%	70 - 130
		F1 (C6-C10)	2011/12/15		91	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2011/12/16		98	%	70 - 130
		4-Bromofluorobenzene	2011/12/16		92	%	70 - 130
		D10-Ethylbenzene	2011/12/16		87	%	70 - 130
		D4-1,2-Dichloroethane	2011/12/16		96	%	70 - 130
		F1 (C6-C10)	2011/12/16	<25		ug/L	
RPD	F1 (C6-C10) - BTEX	2011/12/16	<25		ug/L		
	F1 (C6-C10)	2011/12/15	NC		%	30	
	F1 (C6-C10) - BTEX	2011/12/15	NC		%	30	
	F1 (C6-C10) - BTEX	2011/12/15	NC		%	30	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B1J4875

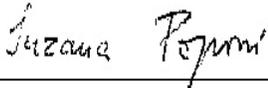
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:		Laboratory	
Company Name: #21644 SNC-Lavalin Environment	Contact Name: Sheri Schembri	Address: 20 DeBoers Drive Suite 200 Toronto ON M3J 0H1	Phone: (416)635-0087 x111 Fax: (416)635-5353 Email: sheri.schembri@snclavalin.com	Company Name: #13786 SNC-Lavalin Environment	Contact Name: Akruti Atawala	Address: 20 DeBoers Drive Suite 200 Toronto ON M3J 0H1	Phone: (416)635-0087 x139 Fax: (416)635-5353 Email: akruti.atawala@snclavalin.com
Quotation #: B10286 Shell-GTSS				P.O. #: -			
Project #: S09125				Project Name: Purood: Oakville			
Site #: -				Sampled By: RF			
 CHAIN OF CUSTODY C#318342-01-01							

Regulation 153 (2011)		Other Regulations		SPECIAL INSTRUCTIONS		ANALYSIS REQUESTED (Please be specific)						TURNAROUND TIME				
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw		Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	MTBE	F1 & BTEX	F2-F4 in Water					PLEASE PROVIDE ADVANCE	
<input checked="" type="checkbox"/> Table 2	<input checked="" type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg. 558	<input type="checkbox"/> Storm Sewer Bylaw											Regular (Standard) TAT:	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____											<i>(will be applied if Rush TAT is not specified)</i>	
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO												Standard TAT = 5-7 Working days for most samples	

Include Criteria on Certificate of Analysis (Y/N)? _____
 Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	MTBE	F1 & BTEX	F2-F4 in Water							# of Bottles
1	BH-98	Dec. 7 / 2011	2:30pm	WT	N	-	X	X	X							8
2	BH-99		3:35pm	WT	N	-	X	X	X							8
3	TRIP BLANK		5:00pm	WT	N	-	X	X	X							3
4				WT												
5				WT												
6				WT												
7				WT												
8				WT												
9				WT												
10				WT												

RELINQUISHED BY: (Signature/Print) P.B. Finkbeiner / R.B. Finkbeiner		Date: (YY/MM/DD) 11/12/07	Time: 7:00pm	RECEIVED BY: (Signature/Print) M. K. ...		Date: (YY/MM/DD) 20/11/09	Time: 16:05	# Jars Used and Not Submitted 0	Laboratory Time Sensitive	Temperature (°C) 1/2/12
--------------------------------------------------------------------------------	--	-------------------------------------	------------------------	----------------------------------------------------	--	-------------------------------------	-----------------------	-------------------------------------------	-------------------------------------	-----------------------------------

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 Maxxam Analytics International Corporation of a Maxxam Analytics Page 10 of 10

Your Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, ON
 Your C.O.C. #: 33356002, 333560-02-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2012/04/30

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B240816

Received: 2012/03/22, 17:37

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	3	N/A	2012/03/29	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	3	2012/03/26	2012/03/27	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	3	N/A	2012/03/29	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, ON
Your C.O.C. #: 33356002, 333560-02-01

Attention: Akruati Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2012/04/30

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

30 Apr 2012 13:24:58 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B240816
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, ON

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		MW7104		MW7105		MW7106		
Sampling Date		2012/03/22 15:15		2012/03/22 15:45		2012/03/22 16:00		
COC Number		333560-02-01		333560-02-01		333560-02-01		
	Units	MW-502	RDL	MW-503	RDL	MW-504	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	0.16	0.10		0.10	<0.20	0.20	2801286
Ethylbenzene	ug/L	<0.10	0.10		0.10	<0.20	0.20	2801286
Methyl t-butyl ether (MTBE)	ug/L	9.1	0.20	390	5.0	33	0.40	2801286
Toluene	ug/L	0.25	0.20			<0.40	0.40	2801286
p+m-Xylene	ug/L	0.24	0.10			<0.20	0.20	2801286
o-Xylene	ug/L	<0.10	0.10			<0.20	0.20	2801286
Xylene (Total)	ug/L	0.24	0.10			<0.20	0.20	2801286
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	99		100		98		2801286
D4-1,2-Dichloroethane	%	101		96		100		2801286
D8-Toluene	%	99		101		99		2801286

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B240816
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, ON

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		MW7104	MW7105	MW7106		
Sampling Date		2012/03/22 15:15	2012/03/22 15:45	2012/03/22 16:00		
COC Number		333560-02-01	333560-02-01	333560-02-01		
	Units	MW-502	MW-503	MW-504	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L		<0.20		0.20	2803701
Toluene	ug/L		<0.20		0.20	2803701
Ethylbenzene	ug/L		<0.20		0.20	2803701
o-Xylene	ug/L		<0.20		0.20	2803701
p+m-Xylene	ug/L		<0.40		0.40	2803701
Total Xylenes	ug/L		<0.40		0.40	2803701
F1 (C6-C10)	ug/L	<25	<25	<25	25	2803701
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	2803701
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	2801774
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	100	2801774
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	100	2801774
Reached Baseline at C50	ug/L	Yes	Yes	Yes		2801774
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	99	97	95		2803701
4-Bromofluorobenzene	%	96	102	95		2803701
D10-Ethylbenzene	%	98	102	89		2803701
D4-1,2-Dichloroethane	%	96	96	98		2803701
o-Terphenyl	%	111	112	109		2801774
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B240816
Report Date: 2012/04/30

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, ON

Test Summary

Maxxam ID MW7104
Sample ID MW-502
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2801774	2012/03/26	2012/03/27	BILJANA LAZOVIC
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7105
Sample ID MW-503
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2801774	2012/03/26	2012/03/27	BILJANA LAZOVIC
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7106
Sample ID MW-504
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2801774	2012/03/26	2012/03/27	BILJANA LAZOVIC
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam Job #: B240816
Report Date: 2012/04/30

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, ON

Package 1	7.0°C
Package 2	8.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

VOC Analysis: Due to high concentrations of target analytes, some samples required dilutions. Detection limits were adjusted accordingly.
Analysis: All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental

Revised Report 2012/04/30: BTEX reported from F1/BTEX scan for sample ID MF7105 as per client's request.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, ON

Quality Assurance Report
 Maxxam Job Number: MB240816

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2801286 SLM	Matrix Spike	4-Bromofluorobenzene	2012/03/28		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/28		99	%	70 - 130
		D8-Toluene	2012/03/28		103	%	70 - 130
		Benzene	2012/03/28		97	%	70 - 130
		Ethylbenzene	2012/03/28		97	%	70 - 130
		Methyl t-butyl ether (MTBE)	2012/03/28		104	%	70 - 130
		Toluene	2012/03/28		98	%	70 - 130
		p+m-Xylene	2012/03/28		96	%	70 - 130
		o-Xylene	2012/03/28		99	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2012/03/28		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/28		102	%	70 - 130
		D8-Toluene	2012/03/28		101	%	70 - 130
		Benzene	2012/03/28		89	%	70 - 130
		Ethylbenzene	2012/03/28		88	%	70 - 130
		Methyl t-butyl ether (MTBE)	2012/03/28		104	%	70 - 130
		Toluene	2012/03/28		90	%	70 - 130
		p+m-Xylene	2012/03/28		88	%	70 - 130
		o-Xylene	2012/03/28		91	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2012/03/28		98	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/28		101	%	70 - 130
		D8-Toluene	2012/03/28		101	%	70 - 130
		Benzene	2012/03/28	<0.10		ug/L	
		Ethylbenzene	2012/03/28	<0.10		ug/L	
		Methyl t-butyl ether (MTBE)	2012/03/28	<0.20		ug/L	
		Toluene	2012/03/28	<0.20		ug/L	
		p+m-Xylene	2012/03/28	<0.10		ug/L	
		o-Xylene	2012/03/28	<0.10		ug/L	
	RPD	Xylene (Total)	2012/03/28	<0.10		ug/L	
		Benzene	2012/03/29	0.9		%	30
		Ethylbenzene	2012/03/29	NC		%	30
		Methyl t-butyl ether (MTBE)	2012/03/29	NC		%	30
		Toluene	2012/03/29	NC		%	30
		p+m-Xylene	2012/03/29	NC		%	30
o-Xylene		2012/03/29	NC		%	30	
Xylene (Total)		2012/03/29	NC		%	30	
2801774 BLZ	Matrix Spike	o-Terphenyl	2012/03/27		116	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/03/27		115	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2012/03/27		115	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2012/03/27		103	%	50 - 130
	Spiked Blank	o-Terphenyl	2012/03/26		111	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/03/26		109	%	70 - 130
		F3 (C16-C34 Hydrocarbons)	2012/03/26		109	%	70 - 130
		F4 (C34-C50 Hydrocarbons)	2012/03/26		99	%	70 - 130
	Method Blank	o-Terphenyl	2012/03/26		109	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/03/26	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2012/03/26	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2012/03/26	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2012/03/27	NC		%	30
		F3 (C16-C34 Hydrocarbons)	2012/03/27	NC		%	30
		F4 (C34-C50 Hydrocarbons)	2012/03/27	NC		%	30
2803701 GRU	Matrix Spike	1,4-Difluorobenzene	2012/03/29		99	%	70 - 130
		4-Bromofluorobenzene	2012/03/29		102	%	70 - 130
		D10-Ethylbenzene	2012/03/29		99	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/29		99	%	70 - 130
		Benzene	2012/03/29		129	%	70 - 130

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB240816

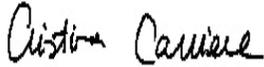
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2803701 GRU	Matrix Spike	Toluene	2012/03/29		99	%	70 - 130
		Ethylbenzene	2012/03/29		111	%	70 - 130
		o-Xylene	2012/03/29		117	%	70 - 130
		p+m-Xylene	2012/03/29		108	%	70 - 130
		F1 (C6-C10)	2012/03/29		121	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2012/03/29		98	%	70 - 130
		4-Bromofluorobenzene	2012/03/29		100	%	70 - 130
		D10-Ethylbenzene	2012/03/29		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/29		96	%	70 - 130
		Benzene	2012/03/29		119	%	70 - 130
		Toluene	2012/03/29		102	%	70 - 130
		Ethylbenzene	2012/03/29		115	%	70 - 130
		o-Xylene	2012/03/29		113	%	70 - 130
		p+m-Xylene	2012/03/29		110	%	70 - 130
		F1 (C6-C10)	2012/03/29		107	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2012/03/29		99	%	70 - 130
		4-Bromofluorobenzene	2012/03/29		97	%	70 - 130
		D10-Ethylbenzene	2012/03/29		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/29		97	%	70 - 130
		Benzene	2012/03/29	<0.20		ug/L	
		Toluene	2012/03/29	<0.20		ug/L	
		Ethylbenzene	2012/03/29	<0.20		ug/L	
		o-Xylene	2012/03/29	<0.20		ug/L	
		p+m-Xylene	2012/03/29	<0.40		ug/L	
		Total Xylenes	2012/03/29	<0.40		ug/L	
		F1 (C6-C10)	2012/03/29	<25		ug/L	
		F1 (C6-C10) - BTEX	2012/03/29	<25		ug/L	
	RPD	F1 (C6-C10)	2012/03/29	26.5		%	30
		F1 (C6-C10) - BTEX	2012/03/29	27.4		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

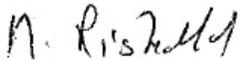
Validation Signature Page

Maxxam Job #: B240816

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



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



MAMDOUH SALIB, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Akruiti Atawala
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3J 0H1
 Phone: (416)635-0087 x 139 Fax: (416)635-5353
 Email: akruiti.atawala@snc-lavalin.com

REPORT INFORMATION (if differs from invoice):

Company Name:
 Contact Name:
 Address:
 Phone: Fax:
 Email:

PROJECT INFORMATION:

Quotation #: B10288 Shell - GESS
 P.O. #:
 Project #: S09125
 Project Name:
 Site #: 3005 Dundas St. W. Oakville
 Sampled By: W. Atawala

Regulation 153 (2011)

Table 1
 Table 2
 Table 3
 Table

Res/Park
 Ind/Comm
 Agri/Other
 For RSC

Medium/Fine
 Coarse

Other Regulations

CCME
 Reg. 558
 MISA
 PWQO
 Other

Sanitary Sewer Bylaw
 Storm Sewer Bylaw
 Municipality:

SPECIAL INSTRUCTIONS

Regulated Drinking Water? (Y/N)
 Metals Field Filtered? (Y/N)
 PHC F1-F4 & BTEX
 MTBE

TURNAROUND

PLEASE PROVIDE AD

Regular (Standard) TAT:
 (will be applied if Rush TAT is not)
 Standard TAT = 5-7 Working days
 Please note: Standard TAT for ce
 days - contact your Project Mana

Job Specific Rush TAT (if appli

Date Required:
 Rush Confirmation Number:

Include Criteria on Certificate of Analysis (Y/N)?
 Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form
 SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4 & BTEX	MTBE	ANALYSIS REQUESTED (Please be specific)										# of Bottles					
1	MW-502	Mar 22, 2012	3:15P	WT	N		X	X															8	
2	MW-503		3:45P	WT	N		X	X																8
3	MW-504		4:00P	WT	N		X	X																8
4				WT																				
5																								
6																								
7																								
8																								
9																								
10																								

*RELINQUISHED BY: (Signature/Print) *[Signature]* Date: (YY/MM/DD) 11/03/22 Time: 4:30P RECEIVED BY: (Signature/Print) *[Signature]* Date: (YY/MM/DD) 2012/03/22 Time: 17:37

Jars Used and Not Submitted: 8
 Time Sensitive: 8/7
 Temperature: 9/8

Your Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Your C.O.C. #: 33356001, 333560-01-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2012/04/30

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B240822

Received: 2012/03/22, 17:37

Sample Matrix: Water
 # Samples Received: 7

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	7	N/A	2012/03/29	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	7	2012/03/26	2012/03/26	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	7	N/A	2012/03/29	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
Your C.O.C. #: 33356001, 333560-01-01

Attention: Akruati Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2012/04/30

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

30 Apr 2012 13:26:17 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

MARYAM ARGHANDEH,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B240822
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Sampler Initials: WW

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		MW7117		MW7118		MW7119		MW7120		
Sampling Date		2012/03/22 14:15		2012/03/22 13:45		2012/03/22 13:30		2012/03/22 12:45		
COC Number		333560-01-01		333560-01-01		333560-01-01		333560-01-01		
	Units	MW-401	RDL	MW-402	RDL	MW-403	RDL	MW-404	RDL	QC Batch

Volatile Organics										
Benzene	ug/L	0.42	0.10		0.10	<0.10	0.10	<0.20	0.20	2801286
Ethylbenzene	ug/L	0.22	0.10		0.10	<0.10	0.10	<0.20	0.20	2801286
Methyl t-butyl ether (MTBE)	ug/L	<0.40 (1)	0.40	450	5.0	0.25	0.20	24	0.40	2801286
Toluene	ug/L	<0.20	0.20			<0.20	0.20	<0.40	0.40	2801286
p+m-Xylene	ug/L	0.42	0.10			<0.10	0.10	<0.20	0.20	2801286
o-Xylene	ug/L	<0.10	0.10			<0.10	0.10	<0.20	0.20	2801286
Xylene (Total)	ug/L	0.42	0.10			<0.10	0.10	<0.20	0.20	2801286
Surrogate Recovery (%)										
4-Bromofluorobenzene	%	100		98		99		100		2801286
D4-1,2-Dichloroethane	%	100		97		100		100		2801286
D8-Toluene	%	100		101		100		100		2801286

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Detection limit was raised due to matrix interferences.

Maxxam Job #: B240822
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Sampler Initials: WW

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		MW7121	MW7122	MW7123		
Sampling Date		2012/03/22 14:00	2012/03/22 14:45	2012/03/22 14:20		
COC Number		333560-01-01	333560-01-01	333560-01-01		
	Units	MW-405	MW-501	MW-98	RDL	QC Batch

Volatile Organics						
Benzene	ug/L	<0.10	<0.10	0.36	0.10	2801286
Ethylbenzene	ug/L	<0.10	<0.10	0.15	0.10	2801286
Methyl t-butyl ether (MTBE)	ug/L	1.1	4.7	0.35	0.20	2801286
Toluene	ug/L	<0.20	<0.20	<0.20	0.20	2801286
p+m-Xylene	ug/L	<0.10	<0.10	0.26	0.10	2801286
o-Xylene	ug/L	<0.10	<0.10	<0.10	0.10	2801286
Xylene (Total)	ug/L	<0.10	<0.10	0.26	0.10	2801286
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	100	101	101		2801286
D4-1,2-Dichloroethane	%	102	99	101		2801286
D8-Toluene	%	100	100	101		2801286

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B240822
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Sampler Initials: WW

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		MW7117	MW7118	MW7119	MW7120		
Sampling Date		2012/03/22 14:15	2012/03/22 13:45	2012/03/22 13:30	2012/03/22 12:45		
COC Number		333560-01-01	333560-01-01	333560-01-01	333560-01-01		
	Units	MW-401	MW-402	MW-403	MW-404	RDL	QC Batch

BTEX & F1 Hydrocarbons							
Benzene	ug/L		<0.20			0.20	2803701
Toluene	ug/L		<0.20			0.20	2803701
Ethylbenzene	ug/L		<0.20			0.20	2803701
o-Xylene	ug/L		<0.20			0.20	2803701
p+m-Xylene	ug/L		<0.40			0.40	2803701
Total Xylenes	ug/L		<0.40			0.40	2803701
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2803701
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2803701
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2800972
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2800972
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2800972
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2800972
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	97	99	98	99		2803701
4-Bromofluorobenzene	%	102	97	99	98		2803701
D10-Ethylbenzene	%	99	103	105	104		2803701
D4-1,2-Dichloroethane	%	100	102	104	101		2803701
o-Terphenyl	%	107	110	108	110		2800972
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B240822
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Sampler Initials: WW

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		MW7121	MW7122	MW7123		
Sampling Date		2012/03/22 14:00	2012/03/22 14:45	2012/03/22 14:20		
COC Number		333560-01-01	333560-01-01	333560-01-01		
	Units	MW-405	MW-501	MW-98	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/L	<25	<25	<25	25	2803701
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	25	2803701
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	100	2800972
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	100	2800972
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	100	2800972
Reached Baseline at C50	ug/L	Yes	Yes	Yes		2800972
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	97	97	99		2803701
4-Bromofluorobenzene	%	96	100	104		2803701
D10-Ethylbenzene	%	100	104	101		2803701
D4-1,2-Dichloroethane	%	98	98	95		2803701
o-Terphenyl	%	109	109	109		2800972
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B240822
Report Date: 2012/04/30

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
Sampler Initials: WW

Test Summary

Maxxam ID MW7117
Sample ID MW-401
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7118
Sample ID MW-402
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7119
Sample ID MW-403
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7120
Sample ID MW-404
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7121
Sample ID MW-405
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam Job #: B240822
 Report Date: 2012/04/30

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
 Sampler Initials: WW

Test Summary

Maxxam ID MW7122
Sample ID MW-501
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam ID MW7123
Sample ID MW-98
Matrix Water

Collected 2012/03/22
Shipped
Received 2012/03/22

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2803701	N/A	2012/03/29	GEORGETA RUSU
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2800972	2012/03/26	2012/03/26	JEEVARAJ JEEVARATRNAM
Volatile Organic Compounds in Water	P&T/MS	2801286	N/A	2012/03/29	SARAH LAM

Maxxam Job #: B240822
Report Date: 2012/04/30

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON
Sampler Initials: WW

Package 1	7.0°C
Package 2	8.3°C

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Revised Report 2012/04/30: BTEX reported from F1/BTEX scan for sample ID MW7118 as per client's request.

Sample MW7118-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample MW7120-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON

Quality Assurance Report

Maxxam Job Number: MB240822

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2800972 JJE	Matrix Spike	o-Terphenyl	2012/03/26		106	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2012/03/26		95	%	50 - 130	
		F3 (C16-C34 Hydrocarbons)	2012/03/26		104	%	50 - 130	
		F4 (C34-C50 Hydrocarbons)	2012/03/26		96	%	50 - 130	
	Spiked Blank	o-Terphenyl	2012/03/26		107	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2012/03/26		97	%	70 - 130	
		F3 (C16-C34 Hydrocarbons)	2012/03/26		107	%	70 - 130	
		F4 (C34-C50 Hydrocarbons)	2012/03/26		97	%	70 - 130	
	Method Blank	o-Terphenyl	2012/03/26		107	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2012/03/26	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2012/03/26	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2012/03/26	<100		ug/L		
	RPD	F2 (C10-C16 Hydrocarbons)	2012/03/26	NC		%	30	
		F3 (C16-C34 Hydrocarbons)	2012/03/26	NC		%	30	
F4 (C34-C50 Hydrocarbons)		2012/03/26	NC		%	30		
2801286 SLM	Matrix Spike	4-Bromofluorobenzene	2012/03/28		101	%	70 - 130	
		D4-1,2-Dichloroethane	2012/03/28		99	%	70 - 130	
		D8-Toluene	2012/03/28		103	%	70 - 130	
		Benzene	2012/03/28		97	%	70 - 130	
		Ethylbenzene	2012/03/28		97	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2012/03/28		104	%	70 - 130	
		Toluene	2012/03/28		98	%	70 - 130	
		p+m-Xylene	2012/03/28		96	%	70 - 130	
		o-Xylene	2012/03/28		99	%	70 - 130	
		Spiked Blank	4-Bromofluorobenzene	2012/03/28		101	%	70 - 130
			D4-1,2-Dichloroethane	2012/03/28		102	%	70 - 130
			D8-Toluene	2012/03/28		101	%	70 - 130
			Benzene	2012/03/28		89	%	70 - 130
			Ethylbenzene	2012/03/28		88	%	70 - 130
	Methyl t-butyl ether (MTBE)		2012/03/28		104	%	70 - 130	
	Toluene		2012/03/28		90	%	70 - 130	
	p+m-Xylene		2012/03/28		88	%	70 - 130	
	Method Blank	o-Xylene	2012/03/28		91	%	70 - 130	
		4-Bromofluorobenzene	2012/03/28		98	%	70 - 130	
		D4-1,2-Dichloroethane	2012/03/28		101	%	70 - 130	
		D8-Toluene	2012/03/28		101	%	70 - 130	
		Benzene	2012/03/28	<0.10		ug/L		
		Ethylbenzene	2012/03/28	<0.10		ug/L		
		Methyl t-butyl ether (MTBE)	2012/03/28	<0.20		ug/L		
		Toluene	2012/03/28	<0.20		ug/L		
	RPD	p+m-Xylene	2012/03/28	<0.10		ug/L		
		o-Xylene	2012/03/28	<0.10		ug/L		
		Xylene (Total)	2012/03/28	<0.10		ug/L		
		Benzene	2012/03/29	0.9		%	30	
		Ethylbenzene	2012/03/29	NC		%	30	
		Methyl t-butyl ether (MTBE)	2012/03/29	NC		%	30	
		Toluene	2012/03/29	NC		%	30	
p+m-Xylene		2012/03/29	NC		%	30		
o-Xylene		2012/03/29	NC		%	30		
Xylene (Total)		2012/03/29	NC		%	30		
2803701 GRU	Matrix Spike	1,4-Difluorobenzene	2012/03/29		99	%	70 - 130	
		4-Bromofluorobenzene	2012/03/29		102	%	70 - 130	
		D10-Ethylbenzene	2012/03/29		99	%	70 - 130	
		D4-1,2-Dichloroethane	2012/03/29		99	%	70 - 130	
		Benzene	2012/03/29		129	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 DUNDAS ST. WEST., OAKVILLE, ON

Quality Assurance Report (Continued)

Maxxam Job Number: MB240822

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2803701 GRU	Matrix Spike	Toluene	2012/03/29		99	%	70 - 130
		Ethylbenzene	2012/03/29		111	%	70 - 130
		o-Xylene	2012/03/29		117	%	70 - 130
		p+m-Xylene	2012/03/29		108	%	70 - 130
		F1 (C6-C10)	2012/03/29		121	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2012/03/29		98	%	70 - 130
		4-Bromofluorobenzene	2012/03/29		100	%	70 - 130
		D10-Ethylbenzene	2012/03/29		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/29		96	%	70 - 130
		Benzene	2012/03/29		119	%	70 - 130
		Toluene	2012/03/29		102	%	70 - 130
		Ethylbenzene	2012/03/29		115	%	70 - 130
		o-Xylene	2012/03/29		113	%	70 - 130
		p+m-Xylene	2012/03/29		110	%	70 - 130
		F1 (C6-C10)	2012/03/29		107	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2012/03/29		99	%	70 - 130
		4-Bromofluorobenzene	2012/03/29		97	%	70 - 130
		D10-Ethylbenzene	2012/03/29		101	%	70 - 130
		D4-1,2-Dichloroethane	2012/03/29		97	%	70 - 130
		Benzene	2012/03/29	<0.20		ug/L	
		Toluene	2012/03/29	<0.20		ug/L	
		Ethylbenzene	2012/03/29	<0.20		ug/L	
		o-Xylene	2012/03/29	<0.20		ug/L	
		p+m-Xylene	2012/03/29	<0.40		ug/L	
		Total Xylenes	2012/03/29	<0.40		ug/L	
		F1 (C6-C10)	2012/03/29	<25		ug/L	
		F1 (C6-C10) - BTEX	2012/03/29	<25		ug/L	
	RPD	F1 (C6-C10)	2012/03/29	26.5		%	30
		F1 (C6-C10) - BTEX	2012/03/29	27.4		%	30

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

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

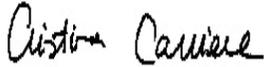
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B240822

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



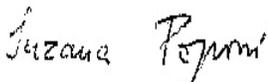
CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



MAMDOUH SALIB, Analyst, Hydrocarbons



SUZANA POPOVIC, Supervisor, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:

Company Name: #21644 SNC-Lavalin Environment
 Contact Name: Akruhi Atawala
 Address: 20 DeBoers Drive Suite 200
 Toronto ON M3J 0H1
 Phone: (416)635-0087 x 139 Fax: (416)635-5353
 Email: akruhi.atawala@snc-lavalin.com

REPORT

Company Name: _____
 Contact Name: _____
 Address: _____
 Phone: _____ Fax: _____
 Email: _____



B240822

FW

ENV-963

PROJECT INFORMATION:

Station #: B10288 *Shale-Gess*
 J. #: _____
 Subject #: S09125
 Project Name: _____
 Site #: *3005 Dundas St W - Oakville*
 Sampled By: *W.W.*

Regulation 153 (2011)

Table 1
 Table 2
 Table 3
 Table

Res/Park
 Ind/Comm
 Agri/Other
 For RSC

Medium/Fine
 Coarse

Other Regulations

CCME
 Reg. 558
 MISA
 PWQO
 Other

Sanitary Sewer Bylaw
 Storm Sewer Bylaw
 Municipality: _____

SPECIAL INSTRUCTIONS

Include Criteria on Certificate of Analysis (Y/N)? _____

Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	ANALYSIS REQUESTED (Please be specific)										# of Bottles	TURNAROUND PLEASE PROVIDE ADV.
							PHC F1-F4 & BTEX	MTBE										
1	MW-401	Mar 22/12	2:15P	WT	N	X	X										8	Some seeds
2	MW-402	↓	1:45P	WT	N	X	X										8	
3	MW-403		1:30P	WT	N	X	X										8	
4	MW-404		12:45P	WT	N	X	X										8	
5	MW-405		2:00P	WT	N	X	X										8	
6	MW-501		2:45P	WT	N	X	X										8	
7	MW-8		2:20P	WT	N	X	X										8	
8					WT													
9				WT														
10				WT														

*RELINQUISHED BY: (Signature/Print) *W.W.* Date: (YY/MM/DD) *12/03/12* Time: *3:15P*

RECEIVED BY: (Signature/Print) *RACHEL DEVLIN* Date: (YY/MM/DD) *2012/03/22* Time: *17:37*

Jars Used and Not Submitted: *0*

Time Sensitive: *9/7/1* Temperature: *9/7/1*

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN UNUSUAL TAT DELAYS.

Your Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Your C.O.C. #: 35948902, 359489-02-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2012/07/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B295993

Received: 2012/06/27, 13:25

Sample Matrix: Water
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2012/07/04	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	5	2012/06/30	2012/07/01	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	5	N/A	2012/06/30	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Your C.O.C. #: 35948902, 359489-02-01

Attention: Akruiti Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2012/07/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

11 Jul 2012 12:54:36 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryam Arghandeh,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B295993
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		NY3910	NY3911	NY3912	NY3913		
Sampling Date		2012/06/26 15:00	2012/06/26 13:30	2012/06/26 10:05	2012/06/26 13:15		
COC Number		359489-02-01	359489-02-01	359489-02-01	359489-02-01		
	Units	MW-502	MW-501	MW-403	MW-405	RDL	QC Batch

Volatile Organics							
Benzene	ug/L	<0.10	0.11	<0.10	<0.10	0.10	2893807
Ethylbenzene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2893807
Methyl t-butyl ether (MTBE)	ug/L	8.7	2.5	0.24	1.2	0.20	2893807
Toluene	ug/L	<0.20	<0.20	<0.20	<0.20	0.20	2893807
p+m-Xylene	ug/L	<0.10	0.11	<0.10	<0.10	0.10	2893807
o-Xylene	ug/L	<0.10	<0.10	<0.10	<0.10	0.10	2893807
Xylene (Total)	ug/L	<0.10	0.11	<0.10	<0.10	0.10	2893807
Surrogate Recovery (%)							
4-Bromofluorobenzene	%	95	97	92	90		2893807
D4-1,2-Dichloroethane	%	94	94	92	92		2893807
D8-Toluene	%	99	98	98	109		2893807

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B295993
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		NY3915		
Sampling Date		2012/06/26 10:55		
COC Number		359489-02-01		
	Units	MW-404	RDL	QC Batch

Volatile Organics				
Benzene	ug/L	<0.10	0.10	2893807
Ethylbenzene	ug/L	<0.10	0.10	2893807
Methyl t-butyl ether (MTBE)	ug/L	26	0.20	2893807
Toluene	ug/L	<0.20	0.20	2893807
p+m-Xylene	ug/L	<0.10	0.10	2893807
o-Xylene	ug/L	<0.10	0.10	2893807
Xylene (Total)	ug/L	<0.10	0.10	2893807
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	92		2893807
D4-1,2-Dichloroethane	%	92		2893807
D8-Toluene	%	99		2893807

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B295993
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		NY3910	NY3911	NY3912	NY3913		
Sampling Date		2012/06/26 15:00	2012/06/26 13:30	2012/06/26 10:05	2012/06/26 13:15		
COC Number		359489-02-01	359489-02-01	359489-02-01	359489-02-01		
	Units	MW-502	MW-501	MW-403	MW-405	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2897887
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2897887
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2896334
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2896334
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2896334
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2896334
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	98	99	100	98		2897887
4-Bromofluorobenzene	%	101	102	101	100		2897887
D10-Ethylbenzene	%	100	100	100	85		2897887
D4-1,2-Dichloroethane	%	98	99	100	99		2897887
o-Terphenyl	%	100	101	104	103		2896334

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B295993
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		NY3914	NY3915		
Sampling Date		2012/06/26 16:30	2012/06/26 10:55		
COC Number		359489-02-01	359489-02-01		
	Units	TRIP BLANK	MW-404	RDL	QC Batch

BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	2897887
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	2897887
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L		<100	100	2896334
F3 (C16-C34 Hydrocarbons)	ug/L		<100	100	2896334
F4 (C34-C50 Hydrocarbons)	ug/L		<100	100	2896334
Reached Baseline at C50	ug/L		Yes		2896334
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	99	100		2897887
4-Bromofluorobenzene	%	100	101		2897887
D10-Ethylbenzene	%	97	99		2897887
D4-1,2-Dichloroethane	%	99	99		2897887
o-Terphenyl	%		103		2896334
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B295993
Report Date: 2012/07/11

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Sampler Initials: CR

Test Summary

Maxxam ID NY3910
Sample ID MW-502
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2896334	2012/06/30	2012/07/01	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2893807	N/A	2012/06/30	Edwin Ayala

Maxxam ID NY3911
Sample ID MW-501
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2896334	2012/06/30	2012/07/01	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2893807	N/A	2012/06/30	Edwin Ayala

Maxxam ID NY3912
Sample ID MW-403
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2896334	2012/06/30	2012/07/01	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2893807	N/A	2012/06/30	Edwin Ayala

Maxxam ID NY3913
Sample ID MW-405
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2896334	2012/06/30	2012/07/01	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2893807	N/A	2012/06/30	Edwin Ayala

Maxxam ID NY3914
Sample ID TRIP BLANK
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim

Maxxam ID NY3915
Sample ID MW-404
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897887	N/A	2012/07/04	Sung Ho Kim
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2896334	2012/06/30	2012/07/01	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2893807	N/A	2012/06/30	Edwin Ayala

Maxxam Job #: B295993
Report Date: 2012/07/11

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Sampler Initials: CR

Package 1	7.3°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

Revised Report 2012/07/11: BTEX reported from VOC scan as per client's request.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, Ontario

Quality Assurance Report
 Maxxam Job Number: MB295993

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2893807 EAY	Matrix Spike	4-Bromofluorobenzene	2012/06/29		102	%	70 - 130	
		D4-1,2-Dichloroethane	2012/06/29		101	%	70 - 130	
		D8-Toluene	2012/06/29		97	%	70 - 130	
		Benzene	2012/06/29		102	%	70 - 130	
		Ethylbenzene	2012/06/29		94	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2012/06/29		109	%	70 - 130	
		Toluene	2012/06/29		97	%	70 - 130	
		p+m-Xylene	2012/06/29		95	%	70 - 130	
		o-Xylene	2012/06/29		102	%	70 - 130	
	Spiked Blank	4-Bromofluorobenzene	2012/06/29		105	%	70 - 130	
		D4-1,2-Dichloroethane	2012/06/29		101	%	70 - 130	
		D8-Toluene	2012/06/29		100	%	70 - 130	
		Benzene	2012/06/29		109	%	70 - 130	
		Ethylbenzene	2012/06/29		98	%	70 - 130	
		Methyl t-butyl ether (MTBE)	2012/06/29		108	%	70 - 130	
		Toluene	2012/06/29		101	%	70 - 130	
		p+m-Xylene	2012/06/29		101	%	70 - 130	
		o-Xylene	2012/06/29		102	%	70 - 130	
	Method Blank	4-Bromofluorobenzene	2012/06/29		96	%	70 - 130	
		D4-1,2-Dichloroethane	2012/06/29		97	%	70 - 130	
		D8-Toluene	2012/06/29		105	%	70 - 130	
		Benzene	2012/06/29	<0.10		ug/L		
		Ethylbenzene	2012/06/29	<0.10		ug/L		
		Methyl t-butyl ether (MTBE)	2012/06/29	<0.20		ug/L		
		Toluene	2012/06/29	<0.20		ug/L		
		p+m-Xylene	2012/06/29	<0.10		ug/L		
		o-Xylene	2012/06/29	<0.10		ug/L		
		Xylene (Total)	2012/06/29	<0.10		ug/L		
		RPD	Benzene	2012/06/29	NC		%	30
			Ethylbenzene	2012/06/29	NC		%	30
			Methyl t-butyl ether (MTBE)	2012/06/29	NC		%	30
			Toluene	2012/06/29	NC		%	30
			p+m-Xylene	2012/06/29	NC		%	30
o-Xylene	2012/06/29		NC		%	30		
2896334 ZZ	Matrix Spike	Xylene (Total)	2012/06/29	NC		%	30	
		o-Terphenyl	2012/06/30		106	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2012/06/30		89	%	50 - 130	
		F3 (C16-C34 Hydrocarbons)	2012/06/30		86	%	50 - 130	
	Spiked Blank	F4 (C34-C50 Hydrocarbons)	2012/06/30		79	%	50 - 130	
		o-Terphenyl	2012/06/30		103	%	50 - 130	
		F2 (C10-C16 Hydrocarbons)	2012/06/30		88	%	70 - 130	
	Method Blank	F3 (C16-C34 Hydrocarbons)	2012/06/30		81	%	70 - 130	
		F4 (C34-C50 Hydrocarbons)	2012/06/30		80	%	70 - 130	
		o-Terphenyl	2012/06/30		101	%	50 - 130	
	RPD	F2 (C10-C16 Hydrocarbons)	2012/06/30	<100		ug/L		
		F3 (C16-C34 Hydrocarbons)	2012/06/30	<100		ug/L		
		F4 (C34-C50 Hydrocarbons)	2012/06/30	<100		ug/L		
		F2 (C10-C16 Hydrocarbons)	2012/07/01	NC		%	30	
		F3 (C16-C34 Hydrocarbons)	2012/07/01	NC		%	30	
F4 (C34-C50 Hydrocarbons)		2012/07/01	NC		%	30		
2897887 SHK	Matrix Spike	1,4-Difluorobenzene	2012/07/04		97	%	70 - 130	
		4-Bromofluorobenzene	2012/07/04		103	%	70 - 130	
		D10-Ethylbenzene	2012/07/04		103	%	70 - 130	
		D4-1,2-Dichloroethane	2012/07/04		99	%	70 - 130	
		F1 (C6-C10)	2012/07/04		86	%	70 - 130	

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, Ontario

Quality Assurance Report (Continued)

Maxxam Job Number: MB295993

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2897887 SHK	Spiked Blank	1,4-Difluorobenzene	2012/07/04		99	%	70 - 130
		4-Bromofluorobenzene	2012/07/04		98	%	70 - 130
		D10-Ethylbenzene	2012/07/04		100	%	70 - 130
		D4-1,2-Dichloroethane	2012/07/04		98	%	70 - 130
	Method Blank	F1 (C6-C10)	2012/07/04		91	%	70 - 130
		1,4-Difluorobenzene	2012/07/04		101	%	70 - 130
		4-Bromofluorobenzene	2012/07/04		103	%	70 - 130
		D10-Ethylbenzene	2012/07/04		92	%	70 - 130
	RPD	D4-1,2-Dichloroethane	2012/07/04		96	%	70 - 130
		F1 (C6-C10)	2012/07/04	<25		ug/L	
		F1 (C6-C10) - BTEX	2012/07/04	<25		ug/L	
		F1 (C6-C10)	2012/07/04	NC		%	30
		F1 (C6-C10) - BTEX	2012/07/04	NC		%	30

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
 Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
 Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
 Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
 NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

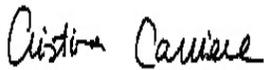
Validation Signature Page

Maxxam Job #: B295993

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



Abdi Mohamud, Senior Analyst



Cristina Carriere, Scientific Services



Medhat Riskallah, Manager, Hydrocarbon Department

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
 6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5779 www.maxxam.ca

CHAIN OF CUSTODY

27-Jun

MARYAM A

B295993

M_P

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#21644 SNC-Lavalin Environment	Company Name:		Quotation #:	B10288
Contact Name:	Akruti Atawala	Contact Name:		P.O. #:	
Address:	20 DeBoers Drive Suite 200 Toronto ON M3J 0H1	Address:		Project #:	S09125
Phone:	(416)635-5882 x5839 Fax: (416)635-5353	Phone:		Project Name:	
Email:	akruti.atawala@sncclavalin.com	Email:		Site #:	305 DeBoers St. W, Cobble, ON
				Sampled By:	CR/AT

Regulation 153 (2011)	Other Regulations	SPECIAL INSTRUCTIONS	ANALYSIS REQUESTED (Please be specific)
<input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table ____	<input type="checkbox"/> Res/Park <input checked="" type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> Medium/Fine <input type="checkbox"/> Coarse <input type="checkbox"/> CCME <input type="checkbox"/> Reg. 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other _____	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Municipality _____
Include Criteria on Certificate of Analysis (Y/N)? _____ Note: For MCE regulated drinking water samples - please use the Drinking Water Chain of Custody Form			

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4 & BTEX	MTBE	BTEX / PHC F1	# of Bottles
1	MW-502	June 26/12	3:00 pm	GW	N	-	X	X		8
2	MW-501		1:30 pm	GW	N	-	X	X		8
3	MW-403		10:05 am	GW	N	-	X	X		8
4	MW-405		1:15 pm	GW	N	-	X	X		8
5	Trip Blank		4:30 pm	GW	N	-			X	3
6	MW-404		10:55 am #15	GW	N	-	X	X		8
7				GW						
8				GW						
9				GW						
10				GW						

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted	Time Sensitivity
<i>[Signature]</i> / VAIDEHI JADESH	June 27/12	11:00 am	<i>[Signature]</i> MIKOLAPUZ	2012/06/27	15:25	15-25	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. 13:25
 Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Your C.O.C. #: 35948901, 359489-01-01

Attention: Akruți Atawala

SNC-Lavalin Environment
 Toronto - Shell Canada
 20 DeBoers Drive
 Suite 200
 Toronto, ON
 CANADA M3J 0H1

Report Date: 2012/07/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B296051

Received: 2012/06/27, 13:25

Sample Matrix: Water
 # Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Water	6	N/A	2012/07/04	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	6	2012/07/03	2012/07/04	CAM SOP-00316	CCME Hydrocarbons
Volatile Organic Compounds in Water	5	N/A	2012/07/03	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	1	N/A	2012/07/04	CAM SOP-00226	EPA 8260 modified

Remarks:

Maxxam Analytics has performed all analytical testing herein in accordance with ISO 17025 and the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. All methodologies comply with this document and are validated for use in the laboratory. The methods and techniques employed in this analysis conform to the performance criteria (detection limits, accuracy and precision) as outlined in the Protocol for Analytical Methods Used in the Assessment of Properties under Part XV.1 of the Environmental Protection Act. Reporting results to two significant figures at the RDL is to permit statistical evaluation and is not intended to be an indication of analytical precision.

The CWS PHC methods employed by Maxxam conform to all prescribed elements of the reference method and performance based elements have been validated. All modifications have been validated and proven equivalent following the 'Alberta Environment Draft Addenda to the CWS-PHC, Appendix 6, Validation of Alternate Methods'. Documentation is available upon request. Maxxam has made the following improvements to the CWS-PHC reference benchmark method: (i) Headspace for F1; and, (ii) Mechanical extraction for F2-F4. Note: F4G cannot be added to the C6 to C50 hydrocarbons. The extraction date for samples field preserved with methanol for F1 and Volatile Organic Compounds is considered to be the date sampled.

Maxxam Analytics is accredited by SCC (Lab ID 97) for all specific parameters as required by Ontario Regulation 153/04. Maxxam Analytics is limited in liability to the actual cost of analysis unless otherwise agreed in writing. There is no other warranty expressed or implied. Samples will be retained at Maxxam Analytics for three weeks from receipt of data or as per contract.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

..12

Your Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Your C.O.C. #: 35948901, 359489-01-01

Attention: Akruti Atawala

SNC-Lavalin Environment
Toronto - Shell Canada
20 DeBoers Drive
Suite 200
Toronto, ON
CANADA M3J 0H1

Report Date: 2012/07/11

This report supersedes all previous reports with the same Maxxam job number

CERTIFICATE OF ANALYSIS

-2-

Encryption Key



Maryam Arghandeh

11 Jul 2012 12:55:32 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Maryam Arghandeh,
Email: mArghand@maxxam.ca
Phone# (905) 817-5700

=====
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B296051
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		NY4167		NY4168	NY4169	NY4170		
Sampling Date		2012/06/26 15:30		2012/06/26 14:30	2012/06/26 15:45	2012/06/26 16:00		
COC Number		359489-01-01		359489-01-01	359489-01-01	359489-01-01		
	Units	MW-503	RDL	BH-98	MW-504	BH-99	RDL	QC Batch

Volatile Organics								
Benzene	ug/L	<0.20	0.20	1.2	<0.10	<0.10	0.10	2895108
Ethylbenzene	ug/L	<0.20	0.20	0.24	<0.10	<0.10	0.10	2895108
Methyl t-butyl ether (MTBE)	ug/L	32	0.40	6.3	20	<0.20	0.20	2895108
Toluene	ug/L	<0.40	0.40	<0.20	<0.20	<0.20	0.20	2895108
p+m-Xylene	ug/L	<0.20	0.20	0.11	0.10	<0.10	0.10	2895108
o-Xylene	ug/L	<0.20	0.20	<0.10	<0.10	<0.10	0.10	2895108
Xylene (Total)	ug/L	<0.20	0.20	0.11	0.10	<0.10	0.10	2895108
Surrogate Recovery (%)								
4-Bromofluorobenzene	%	97		98	103	98		2895108
D4-1,2-Dichloroethane	%	107		104	114	111		2895108
D8-Toluene	%	95		96	93	93		2895108

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B296051
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

VOLATILE ORGANICS BY GC/MS (WATER)

Maxxam ID		NY4171		NY4172		
Sampling Date		2012/06/26 14:30		2012/06/26 15:15		
COC Number		359489-01-01		359489-01-01		
	Units	MW-401	RDL	MW-402	RDL	QC Batch

Volatile Organics						
Benzene	ug/L	1.1	0.10	<2.5	2.5	2895108
Ethylbenzene	ug/L	0.21	0.10	<2.5	2.5	2895108
Methyl t-butyl ether (MTBE)	ug/L	6.3	0.20	510	5.0	2895108
Toluene	ug/L	<0.20	0.20	<5.0	5.0	2895108
p+m-Xylene	ug/L	<0.10	0.10	<2.5	2.5	2895108
o-Xylene	ug/L	<0.10	0.10	<2.5	2.5	2895108
Xylene (Total)	ug/L	<0.10	0.10	<2.5	2.5	2895108
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	100		110		2895108
D4-1,2-Dichloroethane	%	105		107		2895108
D8-Toluene	%	98		94		2895108

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B296051
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		NY4167	NY4168	NY4169	NY4170		
Sampling Date		2012/06/26 15:30	2012/06/26 14:30	2012/06/26 15:45	2012/06/26 16:00		
COC Number		359489-01-01	359489-01-01	359489-01-01	359489-01-01		
	Units	MW-503	BH-98	MW-504	BH-99	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/L	<25	<25	<25	<25	25	2897604
F1 (C6-C10) - BTEX	ug/L	<25	<25	<25	<25	25	2897604
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2897540
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2897540
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	<100	<100	100	2897540
Reached Baseline at C50	ug/L	Yes	Yes	Yes	Yes		2897540
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	98	97	99	99		2897604
4-Bromofluorobenzene	%	96	97	99	99		2897604
D10-Ethylbenzene	%	80	78	82	83		2897604
D4-1,2-Dichloroethane	%	102	101	105	103		2897604
o-Terphenyl	%	104	102	100	104		2897540

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B296051
 Report Date: 2012/07/11

SNC-Lavalin Environment
 Client Project #: S09125
 Site Location: 3005 Dundas St. West, Oakville, Ontario
 Sampler Initials: CR

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		NY4171	NY4172		
Sampling Date		2012/06/26 14:30	2012/06/26 15:15		
COC Number		359489-01-01	359489-01-01		
	Units	MW-401	MW-402	RDL	QC Batch

BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/L	<25	<25	25	2897604
F1 (C6-C10) - BTEX	ug/L	<25	<25	25	2897604
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/L	<100	<100	100	2897540
F3 (C16-C34 Hydrocarbons)	ug/L	<100	<100	100	2897540
F4 (C34-C50 Hydrocarbons)	ug/L	<100	<100	100	2897540
Reached Baseline at C50	ug/L	Yes	Yes		2897540
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	98	98		2897604
4-Bromofluorobenzene	%	98	100		2897604
D10-Ethylbenzene	%	80	83		2897604
D4-1,2-Dichloroethane	%	102	104		2897604
o-Terphenyl	%	104	100		2897540
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B296051
Report Date: 2012/07/11

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Sampler Initials: CR

Test Summary

Maxxam ID NY4167
Sample ID MW-503
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/04	Sarah Lam

Maxxam ID NY4168
Sample ID BH-98
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/03	Sarah Lam

Maxxam ID NY4169
Sample ID MW-504
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/03	Sarah Lam

Maxxam ID NY4170
Sample ID BH-99
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/03	Sarah Lam

Maxxam ID NY4171
Sample ID MW-401
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/03	Sarah Lam

Maxxam Job #: B296051
Report Date: 2012/07/11

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Sampler Initials: CR

Test Summary

Maxxam ID NY4172
Sample ID MW-402
Matrix Water

Collected 2012/06/26
Shipped
Received 2012/06/27

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Petroleum Hydro. CCME F1 & BTEX in Wat	HSGC/MSFD	2897604	N/A	2012/07/04	Abdikarim Ali
Petroleum Hydrocarbons F2-F4 in Water	GC/FID	2897540	2012/07/03	2012/07/04	Zhiyue (Frank) Zhu
Volatile Organic Compounds in Water	P&T/MS	2895108	N/A	2012/07/03	Sarah Lam

Maxxam Job #: B296051
Report Date: 2012/07/11

SNC-Lavalin Environment
Client Project #: S09125
Site Location: 3005 Dundas St. West, Oakville, Ontario
Sampler Initials: CR

Package 1	8.7°C
-----------	-------

Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

All sample bottles contained visual sediment, which was included in the analysis as per the Protocol for Analytical Methods Use in the Assessment of Properties under part XV.1 of the Environmental Protection Act.

Revised Report 2012/07/11: BTEX reported from VOC scan as per client's request.

Sample NY4167-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Sample NY4172-01: VOC Analysis: Due to high concentrations of target analytes, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, Ontario

Quality Assurance Report

Maxxam Job Number: MB296051

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2895108 SLM	Matrix Spike	4-Bromofluorobenzene	2012/07/03		107	%	70 - 130
		D4-1,2-Dichloroethane	2012/07/03		107	%	70 - 130
		D8-Toluene	2012/07/03		100	%	70 - 130
		Benzene	2012/07/03		107	%	70 - 130
		Ethylbenzene	2012/07/03		101	%	70 - 130
		Methyl t-butyl ether (MTBE)	2012/07/03		121	%	70 - 130
		Toluene	2012/07/03		101	%	70 - 130
		p+m-Xylene	2012/07/03		103	%	70 - 130
		o-Xylene	2012/07/03		106	%	70 - 130
		Spiked Blank	4-Bromofluorobenzene	2012/07/03		104	%
	D4-1,2-Dichloroethane		2012/07/03		107	%	70 - 130
	D8-Toluene		2012/07/03		99	%	70 - 130
	Benzene		2012/07/03		105	%	70 - 130
	Ethylbenzene		2012/07/03		97	%	70 - 130
	Methyl t-butyl ether (MTBE)		2012/07/03		115	%	70 - 130
	Toluene		2012/07/03		97	%	70 - 130
	p+m-Xylene		2012/07/03		99	%	70 - 130
	o-Xylene		2012/07/03		102	%	70 - 130
	Method Blank		4-Bromofluorobenzene	2012/07/03		99	%
		D4-1,2-Dichloroethane	2012/07/03		108	%	70 - 130
		D8-Toluene	2012/07/03		94	%	70 - 130
		Benzene	2012/07/03	<0.10		ug/L	
		Ethylbenzene	2012/07/03	<0.10		ug/L	
		Methyl t-butyl ether (MTBE)	2012/07/03	<0.20		ug/L	
		Toluene	2012/07/03	<0.20		ug/L	
		p+m-Xylene	2012/07/03	<0.10		ug/L	
		o-Xylene	2012/07/03	<0.10		ug/L	
		Xylene (Total)	2012/07/03	<0.10		ug/L	
	RPD	Benzene	2012/07/03	NC		%	30
		Ethylbenzene	2012/07/03	NC		%	30
		Methyl t-butyl ether (MTBE)	2012/07/03	NC		%	30
		Toluene	2012/07/03	NC		%	30
		p+m-Xylene	2012/07/03	NC		%	30
o-Xylene		2012/07/03	NC		%	30	
Xylene (Total)		2012/07/03	NC		%	30	
2897540 ZZ	Matrix Spike [NY4170-01]	o-Terphenyl	2012/07/04		105	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/07/04		91	%	50 - 130
		F3 (C16-C34 Hydrocarbons)	2012/07/04		94	%	50 - 130
		F4 (C34-C50 Hydrocarbons)	2012/07/04		89	%	50 - 130
	Spiked Blank	o-Terphenyl	2012/07/04		104	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/07/04		91	%	70 - 130
		F3 (C16-C34 Hydrocarbons)	2012/07/04		94	%	70 - 130
		F4 (C34-C50 Hydrocarbons)	2012/07/04		88	%	70 - 130
	Method Blank	o-Terphenyl	2012/07/04		101	%	50 - 130
		F2 (C10-C16 Hydrocarbons)	2012/07/04	<100		ug/L	
		F3 (C16-C34 Hydrocarbons)	2012/07/04	<100		ug/L	
		F4 (C34-C50 Hydrocarbons)	2012/07/04	<100		ug/L	
	RPD	F2 (C10-C16 Hydrocarbons)	2012/07/04	2.8		%	30
		F3 (C16-C34 Hydrocarbons)	2012/07/04	NC		%	30
		F4 (C34-C50 Hydrocarbons)	2012/07/04	NC		%	30
2897604 AAI	Matrix Spike	1,4-Difluorobenzene	2012/07/04		96	%	70 - 130
		4-Bromofluorobenzene	2012/07/04		102	%	70 - 130
		D10-Ethylbenzene	2012/07/04		97	%	70 - 130
		D4-1,2-Dichloroethane	2012/07/04		101	%	70 - 130

SNC-Lavalin Environment
 Attention: Akruiti Atawala
 Client Project #: S09125
 P.O. #:
 Site Location: 3005 Dundas St. West, Oakville, Ontario

Quality Assurance Report (Continued)

Maxxam Job Number: MB296051

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2897604 AAI	Matrix Spike	F1 (C6-C10)	2012/07/04		80	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2012/07/04		98	%	70 - 130
		4-Bromofluorobenzene	2012/07/04		102	%	70 - 130
		D10-Ethylbenzene	2012/07/04		100	%	70 - 130
		D4-1,2-Dichloroethane	2012/07/04		101	%	70 - 130
		F1 (C6-C10)	2012/07/04		92	%	70 - 130
	Method Blank	1,4-Difluorobenzene	2012/07/04		98	%	70 - 130
		4-Bromofluorobenzene	2012/07/04		97	%	70 - 130
		D10-Ethylbenzene	2012/07/04		82	%	70 - 130
		D4-1,2-Dichloroethane	2012/07/04		99	%	70 - 130
	RPD	F1 (C6-C10)	2012/07/04	<25		ug/L	
		F1 (C6-C10) - BTEX	2012/07/04	<25		ug/L	
		F1 (C6-C10)	2012/07/04	NC		%	30
		F1 (C6-C10) - BTEX	2012/07/04	NC		%	30

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

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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

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

NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

Validation Signature Page

Maxxam Job #: B296051

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



Cristina Carriere, Scientific Services



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist



Mamdouh Salib, Analyst, Hydrocarbons

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE INFORMATION:		REPORT INFORMATION (if differs from invoice):		PROJECT INFORMATION:	
Company Name:	#21644 SNC-Lavalin Environment	Company Name:		Quotation #:	B10288
Contact Name:	Akruti Atawala	Contact Name:		P.O. #:	
Address:	20 DeBoers Drive Suite 200 Toronto ON M3J 0H1	Address:		Project #:	S09125
Phone:	(416)635-5882 x5839 Fax: (416)635-5353	Phone:		Project Name:	
Email:	akruti.atawala@snc-lavalin.com	Email:		Site #:	305 Dundas St. W, Oakville, ON
				Sampled By:	CR/US

Regulation 153 (2011)	Other Regulations	SPECIAL INSTRUCTIONS	ANALYSIS REQUESTED (Please be specific):																	
<input type="checkbox"/> Table 1 <input checked="" type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table ____	<input type="checkbox"/> Res/Park <input checked="" type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<input type="checkbox"/> Medium/Fine <input type="checkbox"/> Coarse <input type="checkbox"/> CCME <input type="checkbox"/> Reg. 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other _____	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw Municipality _____																	
Include Criteria on Certificate of Analysis (Y/N)? _____ Note: For MOE regulated drinking water samples - please use the Drinking Water Chain of Custody Form				Regulated Drinking Water? (Y/N) _____ Metals Field Filtered? (Y/N) _____ PHC F1-F4 & BTEX _____ MTBE _____																

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	PHC F1-F4 & BTEX	MTBE	ANALYSIS REQUESTED (Please be specific):										# of Bottles			
1	MW-503	June 26/12	3:30pm	GW	N	-	X	X														8
2	BH-98		2:30pm	GW	N	-	X	X														8
3	MW-504		3:45pm	GW	N	-	X	X														8
4	BH-99		4:00pm	GW	N	-	X	X														8
5	MW-401		2:30pm	GW	N	-	X	X														8
6	MW-402		3:15pm	GW	N	-	X	X														8
7				GW																		
8				GW																		
9				GW																		
10				GW																		

*RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time:	# Jars Used and Not Submitted
<i>Jadeja / VADEHI JADEJA</i>	June 27/12	11:00am	<i>Nikko Lapuz</i> NIKKO LAPUZ	2012/06/27	15:25	0

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS. 13:25

APPENDIX G

SITE PHOTOGRAPHS

Groundwater Remediation Report



Photograph 1 – Drilling MW-401

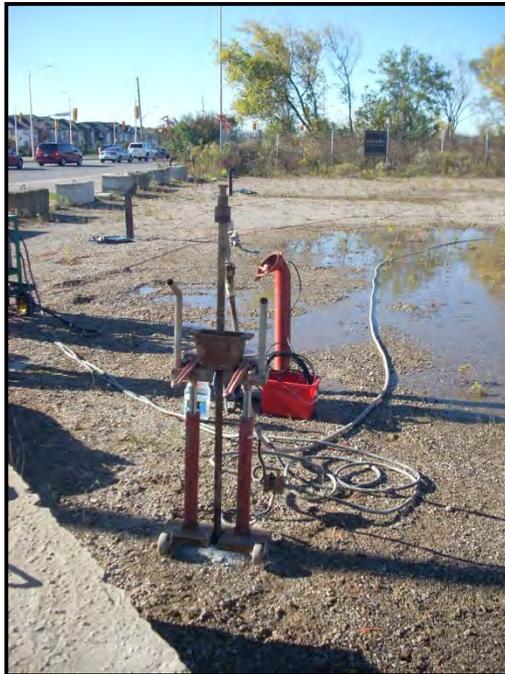


Photograph 2 – Injection point at MW-401

Groundwater Remediation Report



Photograph 3 – Injection point at MW-401



Photograph 4 – Raising the pipe at MW-401





SNC•LAVALIN
Environment

www.snclavalin.com

SNC-Lavalin Environment,
Division of SNC-Lavalin Inc.
20 DeBoers Drive, Suite 200
Toronto, Ontario
M3J 0H1 Canada
Telephone: 416-635-5882
FAX: 416-635-5353

APPENDIX B

LEGAL SURVEY

**SURVEYOR'S REAL PROPERTY REPORT
PART 1) PLAN OF
PART OF LOT 31, CONCESSION 1
NORTH OF DUNDAS STREET
(GEOGRAPHIC TOWNSHIP OF TRAFALGAR)
TOWN OF OAKVILLE
REGIONAL MUNICIPALITY OF HALTON**

SEXTON MCKAY LIMITED
ONTARIO LAND SURVEYORS
CANADA LANDS SURVEYOR

Scale 1:200



PART 2) Report Summary	
DESCRIPTION OF LAND:	BEING PART OF LOT 31, CONCESSION 1, NORTH OF DUNDAS STREET (GEOGRAPHIC TOWNSHIP OF TRAFALGAR) NOW IN THE TOWN OF OAKVILLE, MUNICIPAL No. 3005 DUNDAS STREET PIN 24927-0085(LT) AS IN INST. NO. TW29854, EXCEPT PART 1, PLAN 20R-187 AND PM856.
REGISTERED EASEMENTS and/or RIGHTS-OF-WAY:	NONE
ENCROACHMENTS:	NONE
COMPLIANCE WITH MUNICIPAL ZONING BY-LAWS:	NOT CERTIFIED BY THIS REPORT
ADDITIONAL REMARKS:	NONE

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

LEGEND

- DENOTES SURVEY MONUMENT FOUND
- DENOTES SURVEY MONUMENT SET
- SB DENOTES STANDARD IRON BAR
- IB DENOTES IRON BAR
- SSB DENOTES SHORT STANDARD IRON BAR
- CC DENOTES CUT CROSS
- # DENOTES ROUND
- WIT DENOTES WITNESS
- RP DENOTES REGISTERED PLAN 1491
- P2 DENOTES SURVEY PLAN BY C.A. SEXTON, OLS DATED MAY 1981, 1974
- P3 DENOTES PLAN 20R-11003
- P4 DENOTES PLAN 20R-18040
- P5 DENOTES DEPOSITED PLAN 834
- P6 DENOTES DEPOSITED PLAN 856
- D1 DENOTES INSTRUMENT No. 67448
- MTO DENOTES MINISTRY OF TRANSPORTATION ONTARIO
- CM DENOTES CONCRETE MONUMENT
- MH DENOTES MANHOLE
- CB DENOTES CATCH BASIN
- B DENOTES BOLLARD
- LS DENOTES LIGHT STANDARD
- MW DENOTES MONITORING WELL
- WV DENOTES WATER VALVE
- HP DENOTES HYDRO POLE
- DW DENOTES DOWN WIRE
- TLS DENOTES TRAFFIC LIGHT SIGNAL
- TS DENOTES TRAFFIC SIGN
- HW DENOTES HAND WELL
- OH DENOTES OVERHEAD HYDRO
- OH2 DENOTES OVERHEAD HYDRO
- GS DENOTES GASMAIN
- WT DENOTES WATERMAIN
- SS DENOTES SANITARY SEWER
- ST DENOTES STORM SEWER
- UB DENOTES UNDERGROUND BELL LINES
- ON DENOTES SURVEY PLAN BY SEXTON MCKAY, O.L.S., DATED APRIL 5TH, 2007

NOTE
BEARINGS SHOWN HEREON ARE ASTROMERIC AND ARE REFERRED TO THE SOUTHWESTERLY LIMIT OF PART 1, AS SHOWN ON REGISTERED PLAN 1491, (MTO FILE P-2074-67) HAVING A BEARING OF $N49^{\circ}53'00''W$.

TEMPORARY BENCH MARK

TOP OF CONCRETE PORCH IN FRONT OF HOUSE No. 3015 DUNDAS STREET AND SHOWN ON FACE OF PLAN
ELEVATION = 154.72

THIS REPORT WAS PREPARED FOR SHELL CANADA LIMITED AND THE UNDERSIGNED ACCEPTS NO RESPONSIBILITY FOR USE BY OTHER PARTIES.

SURVEYOR'S CERTIFICATE

- I CERTIFY THAT
- THIS SURVEY AND PLAN ARE CORRECT AND IN ACCORDANCE WITH THE SURVEYS ACT, THE SURVEYORS ACT AND THE LAND TITLES ACT AND THE REGULATIONS MADE UNDER THEM.
 - THE SURVEY WAS COMPLETED ON THE 12TH DAY OF AUGUST 2010,

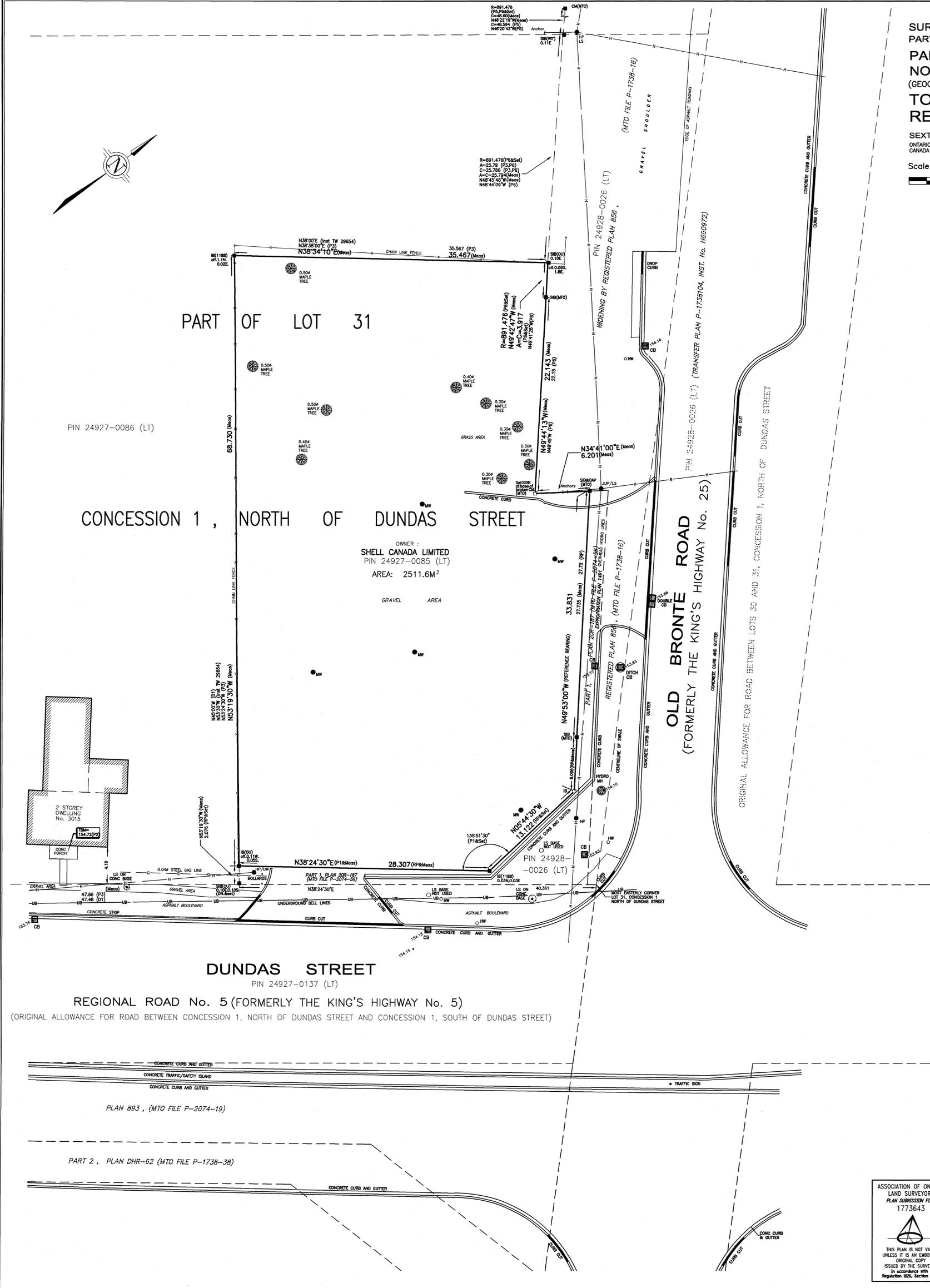
August 12 2010
DATE
C.A. SEXTON
ONTARIO LAND SURVEYOR

CAUTION
LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE. OTHER BURIED UTILITIES MAY EXIST WHICH ARE NOT SHOWN BECAUSE OF INSUFFICIENT INFORMATION. CONTACT ALL POTENTIAL OWNERS OF UNDERGROUND UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION

ASSOCIATION OF ONTARIO LAND SURVEYORS
PLAN SUBMISSION FORM
1773643

THIS PLAN IS NOT VALID UNLESS IT IS AN EMBOSSED ORIGINAL COPY ISSUED BY THE SURVEYOR IN ACCORDANCE WITH REGULATION 1825, SECTION 29(2)

SHELL CANADA PRODUCTS		
DRAWN BY: JD/ml	JOB No. 20384-1	
CHECKED BY: C.A. SEXTON, OLS		
SEXTON MCKAY LIMITED - ONTARIO LAND SURVEYORS - CANADA LANDS SURVEYOR 70 EAST BEAVER CREEK ROAD, UNIT 44 & 45, RICHMOND HILL, ONTARIO L4B 3B2 Tel: (905) 889-9103 Fax: (905) 889-8941		



PART OF LOT 31

CONCESSION 1, NORTH OF DUNDAS STREET

OWNER:
SHELL CANADA LIMITED
PIN 24927-0085 (LT)
AREA: 2511.6M²

OLD BRONTE ROAD
(FORMERLY THE KING'S HIGHWAY No. 5)

DUNDAS STREET
PIN 24927-0137 (LT)

REGIONAL ROAD No. 5 (FORMERLY THE KING'S HIGHWAY No. 5)
(ORIGINAL ALLOWANCE FOR ROAD BETWEEN CONCESSION 1, NORTH OF DUNDAS STREET AND CONCESSION 1, SOUTH OF DUNDAS STREET)

PLAN 893, (MTO FILE P-2074-19)

PART 2, PLAN DHR-62 (MTO FILE P-1738-38)

SHELL CANADA PRODUCTS		
DRAWN BY: JD/ml	JOB No. 20384-1	
CHECKED BY: C.A. SEXTON, OLS		
SEXTON MCKAY LIMITED - ONTARIO LAND SURVEYORS - CANADA LANDS SURVEYOR 70 EAST BEAVER CREEK ROAD, UNIT 44 & 45, RICHMOND HILL, ONTARIO L4B 3B2 Tel: (905) 889-9103 Fax: (905) 889-8941		



SNC•LAVALIN
Environment

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