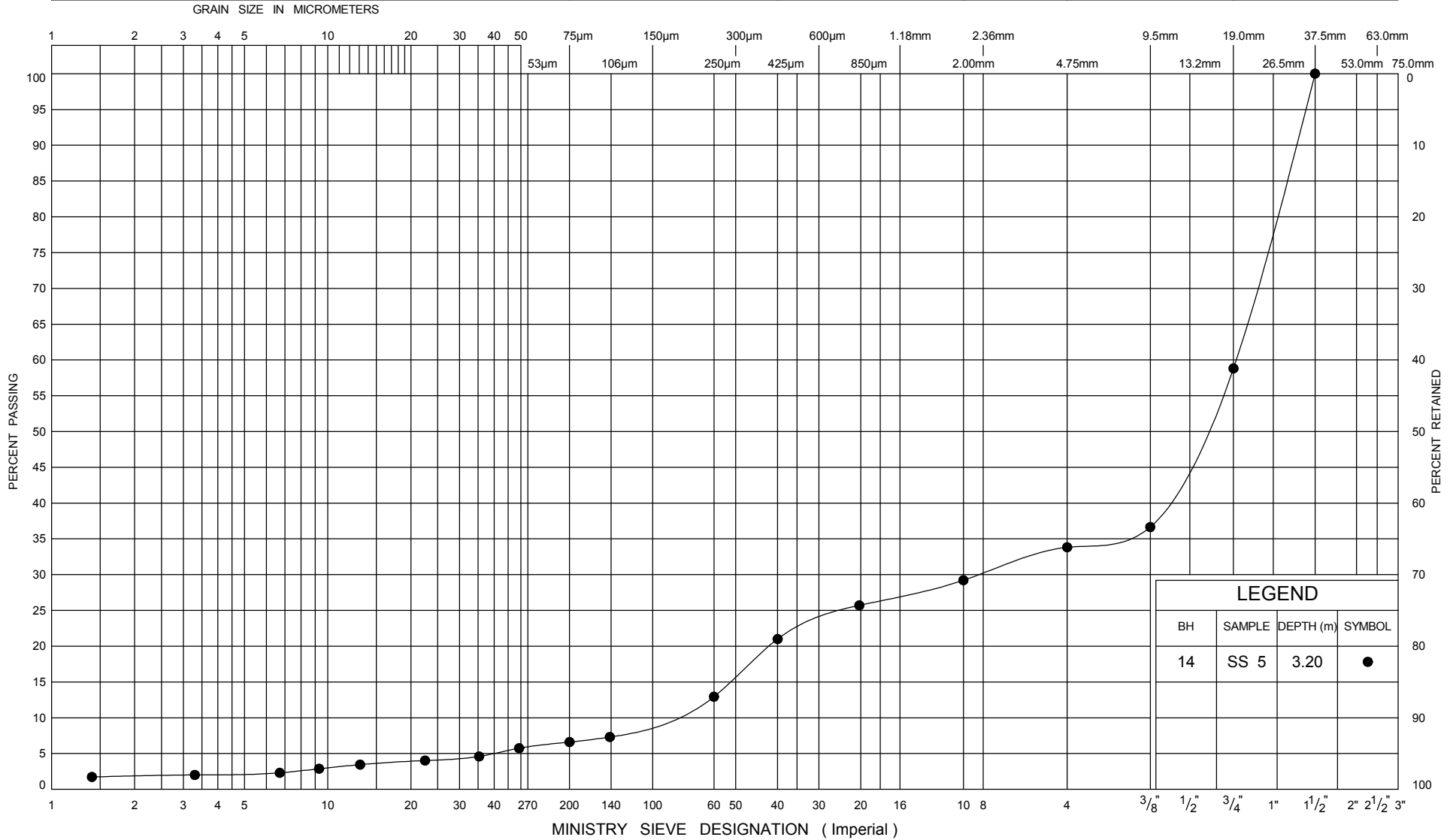


Appendix B

Grain Size Analyses from Geotechnical Investigation

UNIFIED SOIL CLASSIFICATION SYSTEM

CLAY & SILT	SAND			GRAVEL	
	Fine	Medium	Coarse	Fine	Coarse



LEGEND			
BH	SAMPLE	DEPTH (m)	SYMBOL
14	SS 5	3.20	●

TTC GRAIN SIZE 1-09-4247 TTC.GPJ TTC.GDT 02/17/10



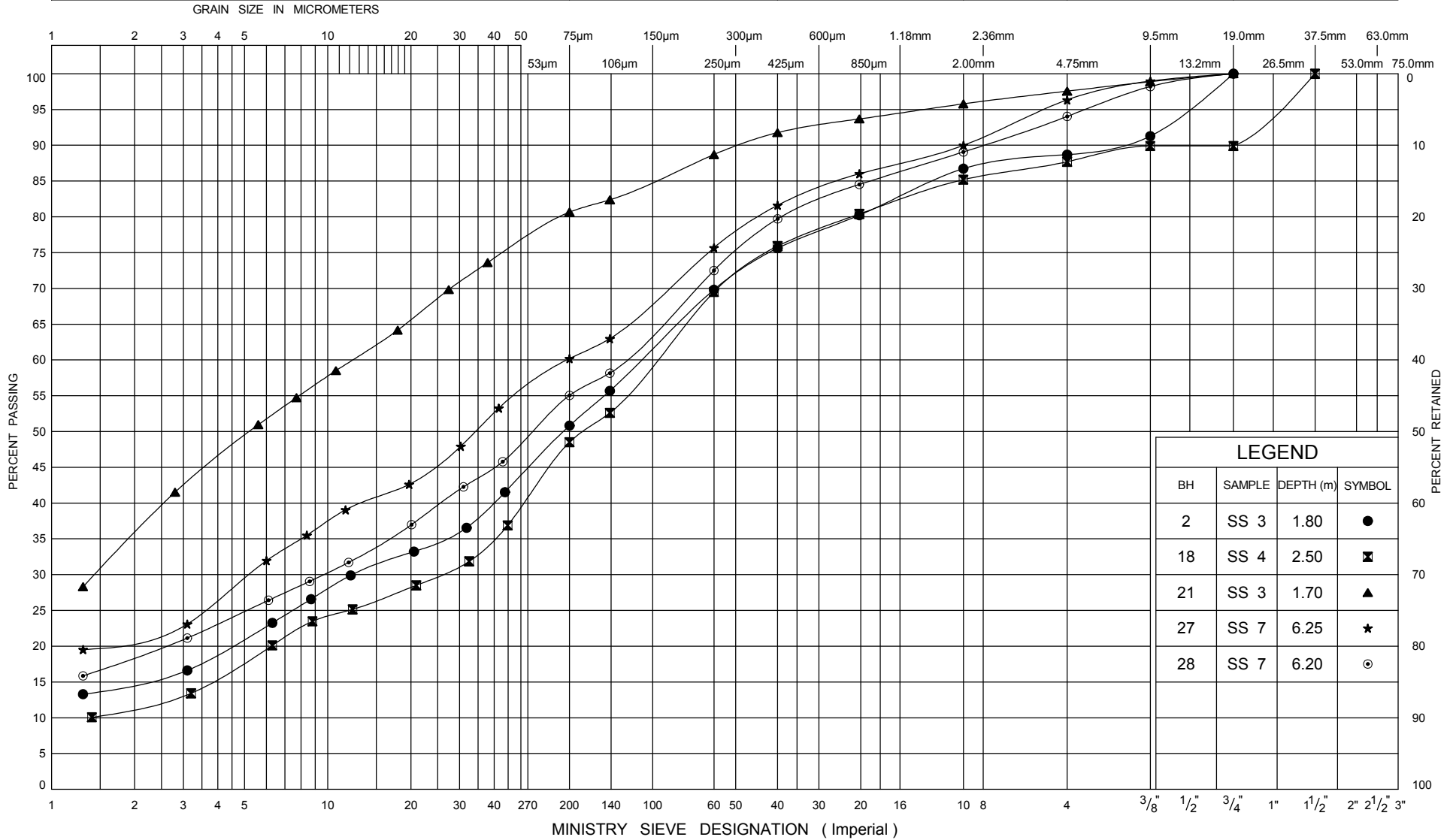
GRAIN SIZE DISTRIBUTION

SANDY GRAVEL, trace clay, trace silt (GW)

Contract No.: TC-85-6	
Project: 1-09-4247	
Date: February 2010	Prepared by: DB Checked by: TM

UNIFIED SOIL CLASSIFICATION SYSTEM

CLAY & SILT	SAND			GRAVEL	
	Fine	Medium	Coarse	Fine	Coarse



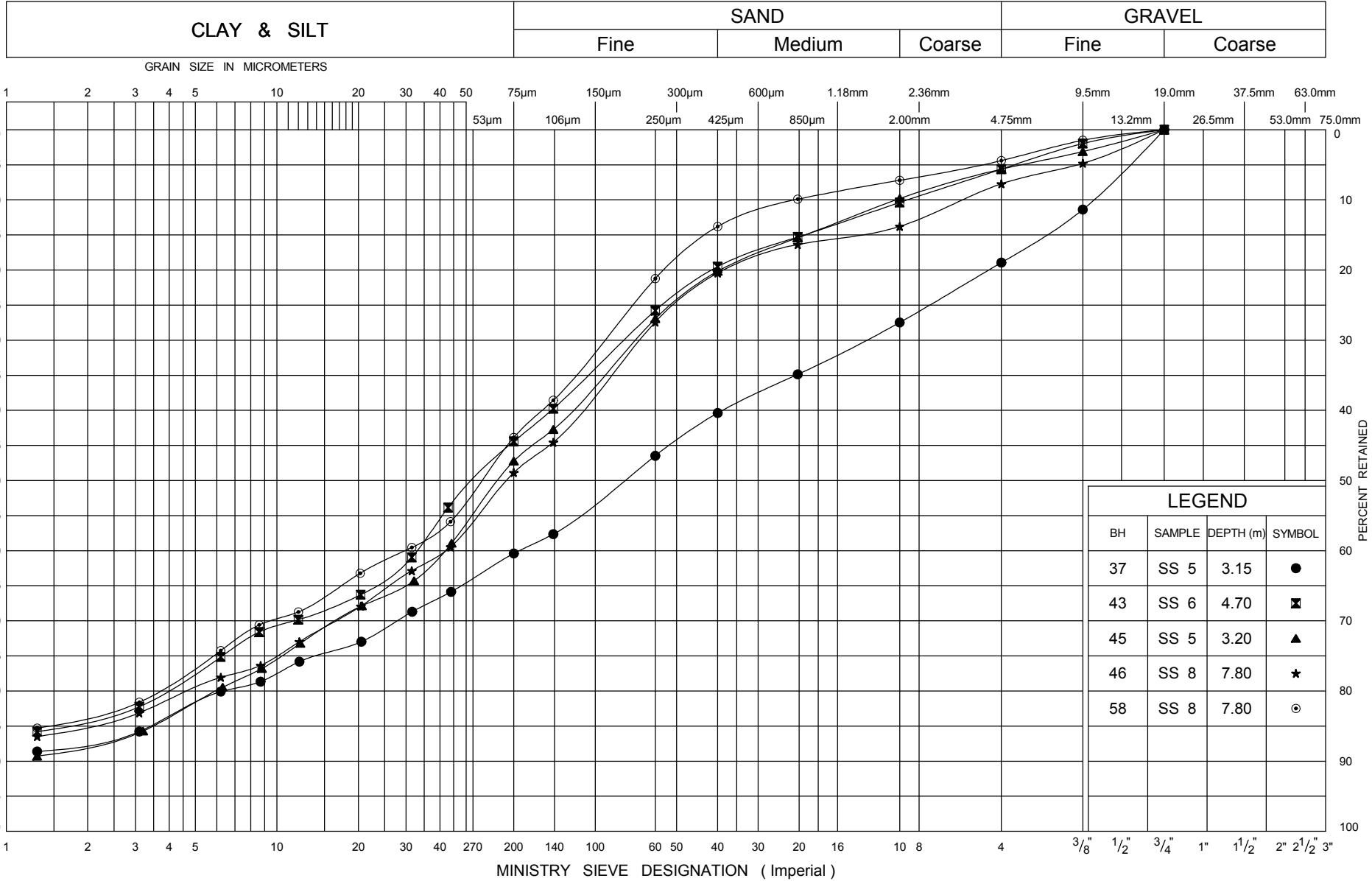
TTC GRAIN SIZE 1-09-4247 TTC.GPJ TTC.GDT 02/17/10



GRAIN SIZE DISTRIBUTION
CLAYEY SILT TO SILTY CLAY GLACIAL TILL
 with sand, trace to some gravel (CL - ML to CL)

Contract No.: TC-85-6	
Project: 1-09-4247	
Date: February 2010	Prepared by: DB Checked by: TM

UNIFIED SOIL CLASSIFICATION SYSTEM



TTC GRAIN SIZE 1-09-4247 TTC.GPJ TTC.GDT 02/17/10



GRAIN SIZE DISTRIBUTION
CLAYEY SILT GLACIAL TILL
 with sand, trace to some gravel (CL - ML)

Contract No.: TC-85-6	
Project: 1-09-4247	
Date: February 2010	Prepared by: DB Checked by: TM

Appendix C

Certificates of Analysis

Your Project #: 111853
 Site: TTC
 Your C.O.C. #: 16745703, 167457-0

Attention: Jason Cole
 AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/10/29

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E2060
Received: 2009/10/22, 16:10

Sample Matrix: Soil
 # Samples Received: 27

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Hot Water Extractable Boron	13	2009/10/28	2009/10/28	CAM SOP-00408	EPA 3050B
Free Cyanide	13	N/A	2009/10/28	CAM SOP-00457	SM 4500CN-I
Conductivity	13	N/A	2009/10/28	CAM SOP-00414	APHA 2510
Chromium (VI) in Soil	13	2009/10/28	2009/10/28	CAM SOP-00420	EPA 3060A
Petroleum Hydro. CCME F1 & BTEX in Soil	13	2009/10/26	2009/10/28	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	13	2009/10/27	2009/10/28	CAM SOP-00316	CCME CWS
Acid Extr. Metals (aqua regia) by ICPMS	13	2009/10/28	2009/10/28	CAM SOP-00447	EPA 6020
MOISTURE	24	N/A	2009/10/27	CAM SOP-00445	McKeague 2nd ed 1978
MOISTURE	1	N/A	2009/10/28	CAM SOP-00445	McKeague 2nd ed 1978
PAH Compounds in Soil by GC/MS (SIM)	3	2009/10/26	2009/10/28	CAM SOP - 00318	EPA 8270
PAH Compounds in Soil by GC/MS (SIM)	1	2009/10/27	2009/10/27	CAM SOP - 00318	EPA 8270
PAH Compounds in Soil by GC/MS (SIM)	11	2009/10/27	2009/10/28	CAM SOP - 00318	EPA 8270
pH CaCl2 EXTRACT	15	2009/10/28	2009/10/28	CAM SOP-00413	SM 4500 H
Sodium Adsorption Ratio (SAR)	13	2009/10/26	2009/10/28	CAM SOP-00102	EPA 6010
Volatile Organic Compounds in Soil	9	2009/10/26	2009/10/28	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Soil	4	2009/10/26	2009/10/29	CAM SOP-00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

Your Project #: 111853
Site: TTC
Your C.O.C. #: 16745703, 167457-0

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2009/10/29

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

=====
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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 42

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7579		EC7580		
Sampling Date		2009/10/13 11:00		2009/10/13 11:00		
COC Number		167457-0		167457-0		
	Units	MW5-2	QC Batch	MW5-9	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.32	1984277		N/A	1984277
Inorganics						
Conductivity	mS/cm	0.12	1992745		0.002	1992745
Free Cyanide	ug/g	ND	1992931		0.01	1992931
Moisture	%	7.8	1985295	5.8	0.2	1991219
Available (CaCl2) pH	pH	7.76	1993034			
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam ID		EC7581	EC7581		EC7582		
Sampling Date		2009/10/14 10:00	2009/10/14 10:00		2009/10/14 10:00		
COC Number		167457-0	167457-0		167457-0		
	Units	MW6-1	MW6-1 Lab-Dup	QC Batch	MW6-9	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.43		1984277		N/A 1984277
Inorganics						
Conductivity	mS/cm	0.11	0.11	1992838		0.002 1992838
Free Cyanide	ug/g	ND		1992931		0.01 1992931
Moisture	%	8.7		1985295	7.0	0.2 1991219
Available (CaCl2) pH	pH	7.74		1993034		
ND = Not detected RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7583	EC7583		EC7584		
Sampling Date		2009/10/14 14:00	2009/10/14 14:00		2009/10/14 14:00		
COC Number		167457-0	167457-0		167457-0		
	Units	MW7-4	MW7-4 Lab-Dup	QC Batch	MW7-8	RDL	QC Batch

Calculated Parameters							
Sodium Adsorption Ratio	N/A	0.40		1984277		N/A	1984277
Inorganics							
Conductivity	mS/cm	0.33		1992745		0.002	1992745
Free Cyanide	ug/g	ND	ND	1992931		0.01	1992931
Moisture	%	20		1985295	7.8	0.2	1991219
Available (CaCl2) pH	pH	7.24		1993034			1993034

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam ID		EC7585	EC7586		EC7587		
Sampling Date		2009/10/14 14:00	2009/10/19		2009/10/19		
COC Number		167457-0	167457-0		167457-0		
	Units	MW7-12	TP1-1	QC Batch	TP1-3	RDL	QC Batch

Calculated Parameters							
Sodium Adsorption Ratio	N/A			1984277	0.27	N/A	1984277
Inorganics							
Conductivity	mS/cm			1992745	0.14	0.002	1992745
Free Cyanide	ug/g			1992931	ND	0.01	1992931
Moisture	%		6.3	1991219	14	0.2	1985295
Available (CaCl2) pH	pH	7.30		1993034	7.73		1993034

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7588		EC7589		EC7590		
Sampling Date		2009/10/19		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		167457-0		
	Units	TP2-1	QC Batch	TP2-2	QC Batch	TP3-1	RDL	QC Batch

Calculated Parameters								
Sodium Adsorption Ratio	N/A	0.31	1984277		1984277	0.33	N/A	1984277
Inorganics								
Conductivity	mS/cm	0.13	1992745		1992745	0.096	0.002	1992745
Free Cyanide	ug/g	ND	1992931		1992931	ND	0.01	1992931
Moisture	%	14	1985295	7.3	1991219	13	0.2	1985295
Available (CaCl2) pH	pH	7.55	1992128			7.86		1993034

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		EC7591		EC7592		EC7593		
Sampling Date		2009/10/19		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		167457-0		
	Units	TP3-2	QC Batch	TP4-1	QC Batch	TP5-2	RDL	QC Batch

Calculated Parameters								
Sodium Adsorption Ratio	N/A		1984277	0.28	1984277	0.32	N/A	1984277
Inorganics								
Conductivity	mS/cm		1992745	0.12	1992838	0.17	0.002	1992745
Free Cyanide	ug/g		1992931	ND	1992931	ND	0.01	1992931
Moisture	%	7.9	1991219	11	1991219	18	0.2	1985302
Available (CaCl2) pH	pH			7.40	1993034	7.42		1992128

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7594		EC7595		
Sampling Date		2009/10/19		2009/10/15 14:00		
COC Number		167457-0		167457-0		
	Units	TP5-5	QC Batch	MW4-10	RDL	QC Batch

Inorganics						
Moisture	%	17	1985302	6.3	0.2	1991219
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam ID		EC7596		EC7597	EC7598		
Sampling Date		2009/10/16 13:00		2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0		167457-0	167457-0		
	Units	MW1-2	QC Batch	MW1-6	MW1-12	RDL	QC Batch

Calculated Parameters							
Sodium Adsorption Ratio	N/A	1.3	1984277			N/A	1984277
Inorganics							
Conductivity	mS/cm	0.47	1992745			0.002	1992745
Free Cyanide	ug/g	ND	1992931			0.01	1992931
Moisture	%	13	1985295	7.9	7.3	0.2	1991219
Available (CaCl ₂) pH	pH	7.52	1993034				
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7599		EC7600		
Sampling Date		2009/10/16 09:00		2009/10/16 09:00		
COC Number		167457-0		167457-0		
	Units	MW2-2	QC Batch	MW2-5	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	1.2	1984277		N/A	1984277
Inorganics						
Conductivity	mS/cm	0.13	1992745		0.002	1992745
Free Cyanide	ug/g	ND	1992931		0.01	1992931
Moisture	%	9.2	1985295	8.5	0.2	1991219
Available (CaCl2) pH	pH	7.62	1992128			
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam ID		EC7601	EC7601		EC7602		
Sampling Date		2009/10/15 10:00	2009/10/15 10:00		2009/10/15 10:00		
COC Number		167457-0	167457-0		167457-0		
	Units	MW3-1	MW3-1 Lab-Dup	QC Batch	MW3-5	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	6.4		1984277		N/A 1984277
Inorganics						
Conductivity	mS/cm	1.3		1992838		0.002 1992838
Free Cyanide	ug/g	ND		1992931		0.01 1992931
Moisture	%	13		1985295	5.8	0.2 1992770
Available (CaCl2) pH	pH	7.57	7.58	1993034		
ND = Not detected RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7603	EC7604	EC7605		
Sampling Date		2009/10/15 14:00	2009/10/15 14:00	2009/10/15 14:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-2	MW4-12	MW4-4	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.30	0.26		N/A	1984277
Inorganics						
Conductivity	mS/cm	0.17	0.18		0.002	1992838
Free Cyanide	ug/g	ND	ND		0.01	1992931
Moisture	%	11	10		0.2	1985295
Available (CaCl2) pH	pH	7.63	7.63	7.74		1993034

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EC7579	EC7579	EC7581		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-2	MW5-2 Lab-Dup	MW6-1	RDL	QC Batch

Metals						
Hot Water Ext. Boron (B)	ug/g	0.04		0.08	0.01	1993052
Chromium (VI)	ug/g	ND		ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	1	1	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	49	49	48	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.3	0.3	0.3	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	ND	ND	ND	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	10	10	10	1	1991497
Acid Extractable Cobalt (Co)	ug/g	3.8	3.6	4.3	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	11	9.1	11	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	4	3	5	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	6.9	6.4	8.3	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.07	0.06	0.08	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	19	18	16	5	1991497
Acid Extractable Zinc (Zn)	ug/g	24	25	26	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	ND	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EC7583		EC7587	EC7588		
Sampling Date		2009/10/14 14:00		2009/10/19	2009/10/19		
COC Number		167457-0		167457-0	167457-0		
	Units	MW7-4	QC Batch	TP1-3	TP2-1	RDL	QC Batch

Metals							
Hot Water Ext. Boron (B)	ug/g	0.82	1991474	0.33	0.17	0.01	1993052
Chromium (VI)	ug/g	ND	1992223	ND	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	1991497	ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	3	1991497	2	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	56	1991497	67	60	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.6	1991497	0.3	0.3	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.2	1991497	0.1	ND	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	13	1991497	12	10	1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.8	1991497	4.8	4.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	12	1991497	12	15	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	15	1991497	9	16	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	1991497	ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	9.2	1991497	9.4	8.6	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	0.5	1991497	ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.09	1991497	0.09	0.08	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	23	1991497	21	18	5	1991497
Acid Extractable Zinc (Zn)	ug/g	40	1991497	32	30	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	1991497	0.06	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EC7590		EC7592		
Sampling Date		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		
	Units	TP3-1	QC Batch	TP4-1	RDL	QC Batch

Metals						
Hot Water Ext. Boron (B)	ug/g	0.05	1993052	0.73	0.01	1991474
Chromium (VI)	ug/g	ND	1992223	0.4	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	0.4	1991497	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2	1991497	3	1	1991497
Acid Extractable Barium (Ba)	ug/g	26	1991497	58	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	ND	1991497	0.5	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.5	1991497	0.3	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	11	1991497	12	1	1991497
Acid Extractable Cobalt (Co)	ug/g	3.2	1991497	4.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	24	1991497	9.7	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	610	1991497	13	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	0.9	1991497	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	22	1991497	8.3	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	1991497	0.6	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	ND	1991497	0.06	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	12	1991497	21	5	1991497
Acid Extractable Zinc (Zn)	ug/g	130	1991497	38	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	1991497	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EC7593	EC7596	EC7599		
Sampling Date		2009/10/19	2009/10/16 13:00	2009/10/16 09:00		
COC Number		167457-0	167457-0	167457-0		
	Units	TP5-2	MW1-2	MW2-2	RDL	QC Batch

Metals						
Hot Water Ext. Boron (B)	ug/g	0.45	0.33	0.06	0.01	1993052
Chromium (VI)	ug/g	ND	ND	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	3	2	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	54	73	43	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.6	0.4	0.3	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.2	0.2	ND	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	12	13	10	1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.6	5.9	6.0	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	9.7	14	12	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	12	17	6	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	9.6	12	11	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.07	0.09	0.10	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	25	21	17	5	1991497
Acid Extractable Zinc (Zn)	ug/g	40	43	25	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	ND	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

Maxxam ID		EC7601	EC7603	EC7604		
Sampling Date		2009/10/15 10:00	2009/10/15 14:00	2009/10/15 14:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW3-1	MW4-2	MW4-12	RDL	QC Batch

Metals						
Hot Water Ext. Boron (B)	ug/g	0.45	0.22	0.22	0.01	1993052
Chromium (VI)	ug/g	ND	ND	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2	2	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	46	57	60	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.4	0.3	0.4	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.2	0.1	0.1	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	11	12	12	1	1991497
Acid Extractable Cobalt (Co)	ug/g	3.6	5.6	5.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	7.6	12	10	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	9	7	7	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	7.4	9.7	9.6	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.07	0.09	0.08	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	20	21	21	5	1991497
Acid Extractable Zinc (Zn)	ug/g	32	34	31	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	ND	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EC7579	EC7580	EC7582		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-2	MW5-9	MW6-9	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)						
D10-Anthracene	%	69	73	67		1985274
D14-Terphenyl (FS)	%	83	85	82		1985274
D7-Quinoline	%	55	53	45		1985274
D8-Acenaphthylene	%	53	57	43		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	TP2-2 Lab-Dup	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	ND	0.005	1985274
Benzo(b,j)fluoranthene	ug/g	ND	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	69	74	74	71		1985274
D14-Terphenyl (FS)	%	84	88	90	88		1985274
D7-Quinoline	%	53	57	60	47		1985274
D8-Acenaphthylene	%	52	58	51	50		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EC7590		EC7591	EC7592		
Sampling Date		2009/10/19		2009/10/19	2009/10/19		
COC Number		167457-0		167457-0	167457-0		
	Units	TP3-1	RDL	TP3-2	TP4-1	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	0.02	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	0.01	ND	ND	0.005	1985274
Anthracene	ug/g	ND	0.01	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	0.03	0.02	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	0.04	0.01	ND	0.007	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	0.04	0.02	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	0.04	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	0.02	0.02	ND	ND	0.01	1985274
Chrysene	ug/g	0.03	0.02	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	0.04	ND	ND	0.02	1985274
Fluoranthene	ug/g	0.08	0.01	ND	0.011	0.005	1985274
Fluorene	ug/g	ND	0.01	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	0.04	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
Phenanthrene	ug/g	0.03	0.01	ND	ND	0.005	1985274
Pyrene	ug/g	0.07	0.01	ND	0.010	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	82		77	72		1985274
D14-Terphenyl (FS)	%	85		88	91		1985274
D7-Quinoline	%	58		53	51		1985274
D8-Acenaphthylene	%	68		45	53		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EC7593		EC7595	EC7597		
Sampling Date		2009/10/19		2009/10/15 14:00	2009/10/16 13:00		
COC Number		167457-0		167457-0	167457-0		
	Units	TP5-2	RDL	MW4-10	MW1-6	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	0.1	ND	ND	0.005	1985274
Anthracene	ug/g	ND	0.1	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	0.2	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	0.4	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Chrysene	ug/g	ND	0.2	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	0.4	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	0.1	ND	ND	0.005	1985274
Fluorene	ug/g	ND	0.1	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	0.4	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Pyrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	80		75	72		1985274
D14-Terphenyl (FS)	%	112		91	85		1985274
D7-Quinoline	%	96		66	52		1985274
D8-Acenaphthylene	%	92		63	56		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

Maxxam ID		EC7598	EC7600	EC7602		
Sampling Date		2009/10/16 13:00	2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW1-12	MW2-5	MW3-5	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)						
D10-Anthracene	%	76	71	72		1985274
D14-Terphenyl (FS)	%	91	85	90		1985274
D7-Quinoline	%	62	56	44		1985274
D8-Acenaphthylene	%	61	57	55		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7580	EC7580	EC7582		
Sampling Date		2009/10/13	2009/10/13	2009/10/14		
		11:00	11:00	10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-9	MW5-9 Lab-Dup	MW6-9	RDL	QC Batch

Volatiles Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	ND	0.002	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	ND	ND	0.002	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7580	EC7580	EC7582		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-9	MW5-9 Lab-Dup	MW6-9	RDL	QC Batch
Toluene	ug/g	0.003	0.003	0.010	0.002	1985227
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	ND	ND	0.008	0.002	1985227
o-Xylene	ug/g	ND	ND	0.002	0.002	1985227
Xylene (Total)	ug/g	ND	ND	0.011	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	83	79	85		1985227
D4-1,2-Dichloroethane	%	94	89	98		1985227
D8-Toluene	%	100	106	104		1985227
ND = Not detected RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	0.002	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	ND	0.004	0.004	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
Toluene	ug/g	0.006	0.013	0.015	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.007	0.009	0.011	0.002	1985227
o-Xylene	ug/g	ND	0.002	0.003	0.002	1985227
Xylene (Total)	ug/g	0.007	0.012	0.014	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	88	89	92		1985227
D4-1,2-Dichloroethane	%	94	93	95		1985227
D8-Toluene	%	110	107	105		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7591	EC7592	EC7594		
Sampling Date		2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	TP3-2	TP4-1	TP5-5	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	0.1	ND	0.1	1985227
Benzene	ug/g	0.003	ND	ND	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.003	ND	0.003	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
Toluene	ug/g	0.011	0.005	0.005	0.002	1985227
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7591	EC7592	EC7594		
Sampling Date		2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	TP3-2	TP4-1	TP5-5	RDL	QC Batch
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.006	ND	0.007	0.002	1985227
o-Xylene	ug/g	ND	ND	0.003	0.002	1985227
Xylene (Total)	ug/g	0.006	ND	0.011	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	88	77	84		1985227
D4-1,2-Dichloroethane	%	93	97	95		1985227
D8-Toluene	%	107	114	110		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7595	EC7597	EC7598		
Sampling Date		2009/10/15 14:00	2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-10	MW1-6	MW1-12	RDL	QC Batch

Volatiles Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	0.003	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.002	0.003	0.002	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
Toluene	ug/g	0.011	0.018	0.013	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7595	EC7597	EC7598		
Sampling Date		2009/10/15 14:00	2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-10	MW1-6	MW1-12	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.008	0.012	0.011	0.002	1985227
o-Xylene	ug/g	0.002	0.003	0.003	0.002	1985227
Xylene (Total)	ug/g	0.011	0.016	0.014	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	83	80	78		1985227
D4-1,2-Dichloroethane	%	96	96	96		1985227
D8-Toluene	%	110	115	115		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7600	EC7602		
Sampling Date		2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0		
	Units	MW2-5	MW3-5	RDL	QC Batch

Volatile Organics					
Acetone (2-Propanone)	ug/g	ND	ND	0.1	1985227
Benzene	ug/g	0.004	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.003	0.004	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	0.002	1985227
1,1,1,2,2-Tetrachloroethane	ug/g	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	0.002	1985227
Toluene	ug/g	0.019	0.016	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

VOLATILE ORGANICS BY GC/MS (SOIL)

Maxxam ID		EC7600	EC7602		
Sampling Date		2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0		
	Units	MW2-5	MW3-5	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.016	0.010	0.002	1985227
o-Xylene	ug/g	0.004	0.003	0.002	1985227
Xylene (Total)	ug/g	0.020	0.013	0.002	1985227
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	81	89		1985227
D4-1,2-Dichloroethane	%	95	97		1985227
D8-Toluene	%	113	106		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		EC7580		EC7582		
Sampling Date		2009/10/13 11:00		2009/10/14 10:00		
COC Number		167457-0		167457-0		
	Units	MW5-9	QC Batch	MW6-9	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	1991473	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	1991473	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	1991359	Yes		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	1991473	104		1991473
4-Bromofluorobenzene	%	99	1991473	94		1991473
D10-Ethylbenzene	%	105	1991473	108		1991473
D4-1,2-Dichloroethane	%	102	1991473	103		1991473
o-Terphenyl	%	82	1991359	93		1991380

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		EC7584	EC7586	EC7589	EC7591		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	TP3-2	RDL	QC Batch

BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/g	ND	ND	ND	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	ND	10	1991473
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	17	16	11	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	ND	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		1991380
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106	101	102	103		1991473
4-Bromofluorobenzene	%	97	96	95	99		1991473
D10-Ethylbenzene	%	106	106	104	106		1991473
D4-1,2-Dichloroethane	%	102	100	102	101		1991473
o-Terphenyl	%	92	91	92	92		1991380

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		EC7592	EC7593	EC7595	EC7597		
Sampling Date		2009/10/19	2009/10/19	2009/10/15 14:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0	167457-0		
	Units	TP4-1	TP5-2	MW4-10	MW1-6	RDL	QC Batch

BTEX & F1 Hydrocarbons							
Benzene	ug/g		ND			0.02	1991473
Toluene	ug/g		ND			0.02	1991473
Ethylbenzene	ug/g		ND			0.02	1991473
o-Xylene	ug/g		ND			0.02	1991473
p+m-Xylene	ug/g		ND			0.04	1991473
Total Xylenes	ug/g		ND			0.04	1991473
F1 (C6-C10)	ug/g	ND	ND	ND	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	ND	10	1991473
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	14	280	15	27	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	860	ND	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	No	Yes	Yes		1991380
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	102	105	106	104		1991473
4-Bromofluorobenzene	%	96	98	99	96		1991473
D10-Ethylbenzene	%	105	111	107	107		1991473
D4-1,2-Dichloroethane	%	102	102	102	103		1991473
o-Terphenyl	%	90	93	94	91		1991380

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/29

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		EC7598	EC7600	EC7602		
Sampling Date		2009/10/16 13:00	2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW1-12	MW2-5	MW3-5	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	33	19	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	Yes	Yes		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	100	105	100		1991473
4-Bromofluorobenzene	%	93	98	96		1991473
D10-Ethylbenzene	%	105	100	103		1991473
D4-1,2-Dichloroethane	%	102	101	100		1991473
o-Terphenyl	%	92	89	90		1991380

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
Report Date: 2009/10/29

AECOM Canada Ltd
Client Project #: 111853
Project name: TTC

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

F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis. F1 & BTEX were extracted beyond the recommended hold time specified in the reference method for samples MW5-9, MW6-9, MW7-8, MW4-10, MW1-6, MW1-12, MW2-5, and MW3-5. Results should be viewed with the appropriate discretion.

Sample EC7579-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7580-01: VOC Analysis: The sample was analyzed after the 14 day holding time specified by the method had expired.

Sample EC7587-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7588-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7590-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7590-01: PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample EC7592-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7593-01: PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample EC7603-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7604-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227 AGE	Matrix Spike [EC7580-02]	4-Bromofluorobenzene	2009/10/29		97	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/29		88	%	60 - 140
		D8-Toluene	2009/10/29		110	%	60 - 140
		Acetone (2-Propanone)	2009/10/29		208 (1)	%	24 - 171
		Benzene	2009/10/29		101	%	39 - 137
		Bromodichloromethane	2009/10/29		101	%	45 - 131
		Bromoform	2009/10/29		82	%	44 - 131
		Bromomethane	2009/10/29		121	%	20 - 146
		Carbon Tetrachloride	2009/10/29		133	%	40 - 139
		Chlorobenzene	2009/10/29		105	%	45 - 140
		Chloroform	2009/10/29		102	%	48 - 128
		Dibromochloromethane	2009/10/29		98	%	52 - 135
		1,2-Dichlorobenzene	2009/10/29		96	%	39 - 145
		1,3-Dichlorobenzene	2009/10/29		105	%	38 - 158
		1,4-Dichlorobenzene	2009/10/29		106	%	35 - 159
		1,1-Dichloroethane	2009/10/29		107	%	48 - 131
		1,2-Dichloroethane	2009/10/29		89	%	43 - 123
		1,1-Dichloroethylene	2009/10/29		117	%	50 - 134
		cis-1,2-Dichloroethylene	2009/10/29		107	%	45 - 136
		trans-1,2-Dichloroethylene	2009/10/29		113	%	45 - 138
		1,2-Dichloropropane	2009/10/29		99	%	51 - 130
		cis-1,3-Dichloropropene	2009/10/29		98	%	39 - 143
		trans-1,3-Dichloropropene	2009/10/29		83	%	33 - 135
		Ethylbenzene	2009/10/29		121	%	46 - 150
		Ethylene Dibromide	2009/10/29		97	%	48 - 136
		Methylene Chloride(Dichloromethane)	2009/10/29		103	%	47 - 124
		Methyl Isobutyl Ketone	2009/10/29		79	%	48 - 133
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29		133	%	39 - 160
		Methyl t-butyl ether (MTBE)	2009/10/29		86	%	37 - 150
		Styrene	2009/10/29		121	%	27 - 148
		1,1,1,2-Tetrachloroethane	2009/10/29		112	%	51 - 140
		1,1,2,2-Tetrachloroethane	2009/10/29		77	%	46 - 128
		Tetrachloroethylene	2009/10/29		122	%	45 - 154
		Toluene	2009/10/29		113	%	30 - 158
		1,1,1-Trichloroethane	2009/10/29		110	%	44 - 136
		1,1,2-Trichloroethane	2009/10/29		90	%	56 - 135
		Trichloroethylene	2009/10/29		110	%	39 - 146
		Vinyl Chloride	2009/10/29		116	%	34 - 136
		p+m-Xylene	2009/10/29		128	%	29 - 161
		o-Xylene	2009/10/29		116	%	45 - 150
	Spiked Blank	4-Bromofluorobenzene	2009/10/28		106	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/28		98	%	60 - 140
		D8-Toluene	2009/10/28		97	%	60 - 140
		Acetone (2-Propanone)	2009/10/28		93	%	60 - 140
		Benzene	2009/10/28		94	%	60 - 140
		Bromodichloromethane	2009/10/28		102	%	60 - 140
		Bromoform	2009/10/28		89	%	60 - 140
		Bromomethane	2009/10/28		108	%	60 - 140
		Carbon Tetrachloride	2009/10/28		112	%	60 - 140
		Chlorobenzene	2009/10/28		92	%	60 - 140
		Chloroform	2009/10/28		98	%	60 - 140
		Dibromochloromethane	2009/10/28		94	%	60 - 140
		1,2-Dichlorobenzene	2009/10/28		91	%	60 - 140
		1,3-Dichlorobenzene	2009/10/28		92	%	60 - 140

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227	AGE	Spiked Blank					
		1,4-Dichlorobenzene	2009/10/28		97	%	60 - 140
		1,1-Dichloroethane	2009/10/28		99	%	60 - 140
		1,2-Dichloroethane	2009/10/28		96	%	60 - 140
		1,1-Dichloroethylene	2009/10/28		102	%	60 - 140
		cis-1,2-Dichloroethylene	2009/10/28		104	%	60 - 140
		trans-1,2-Dichloroethylene	2009/10/28		103	%	60 - 140
		1,2-Dichloropropane	2009/10/28		99	%	60 - 140
		cis-1,3-Dichloropropene	2009/10/28		104	%	60 - 140
		trans-1,3-Dichloropropene	2009/10/28		93	%	60 - 140
		Ethylbenzene	2009/10/28		97	%	60 - 140
		Ethylene Dibromide	2009/10/28		102	%	60 - 140
		Methylene Chloride(Dichloromethane)	2009/10/28		102	%	60 - 140
		Methyl Isobutyl Ketone	2009/10/28		106	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28		96	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/28		100	%	60 - 140
		Styrene	2009/10/28		111	%	60 - 140
		1,1,1,2-Tetrachloroethane	2009/10/28		99	%	60 - 140
		1,1,2,2-Tetrachloroethane	2009/10/28		89	%	60 - 140
		Tetrachloroethylene	2009/10/28		96	%	60 - 140
		Toluene	2009/10/28		93	%	60 - 140
		1,1,1-Trichloroethane	2009/10/28		97	%	60 - 140
		1,1,2-Trichloroethane	2009/10/28		90	%	60 - 140
		Trichloroethylene	2009/10/28		102	%	60 - 140
		Vinyl Chloride	2009/10/28		98	%	60 - 140
		p+m-Xylene	2009/10/28		100	%	60 - 140
		o-Xylene	2009/10/28		97	%	60 - 140
	Method Blank	4-Bromofluorobenzene	2009/10/28		101	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/28		92	%	60 - 140
		D8-Toluene	2009/10/28		96	%	60 - 140
		Acetone (2-Propanone)	2009/10/28	ND, RDL=0.1		ug/g	
		Benzene	2009/10/28	ND, RDL=0.002		ug/g	
		Bromodichloromethane	2009/10/28	ND, RDL=0.002		ug/g	
		Bromoform	2009/10/28	ND, RDL=0.002		ug/g	
		Bromomethane	2009/10/28	ND, RDL=0.003		ug/g	
		Carbon Tetrachloride	2009/10/28	ND, RDL=0.002		ug/g	
		Chlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		Chloroform	2009/10/28	ND, RDL=0.002		ug/g	
		Dibromochloromethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,3-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,4-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		cis-1,2-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		trans-1,2-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichloropropane	2009/10/28	ND, RDL=0.002		ug/g	
		cis-1,3-Dichloropropene	2009/10/28	ND, RDL=0.002		ug/g	
		trans-1,3-Dichloropropene	2009/10/28	ND, RDL=0.002		ug/g	
		Ethylbenzene	2009/10/28	ND, RDL=0.002		ug/g	
		Ethylene Dibromide	2009/10/28	ND, RDL=0.002		ug/g	
		Methylene Chloride(Dichloromethane)	2009/10/28	ND, RDL=0.003		ug/g	
		Methyl Isobutyl Ketone	2009/10/28	ND, RDL=0.03		ug/g	
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28	ND, RDL=0.03		ug/g	
		Methyl t-butyl ether (MTBE)	2009/10/28	ND, RDL=0.002		ug/g	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227	AGE Method Blank	Styrene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,1,2-Tetrachloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,2,2-Tetrachloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		Tetrachloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		Toluene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,1-Trichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,2-Trichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		Trichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		Vinyl Chloride	2009/10/28	ND, RDL=0.002		ug/g	
		p+m-Xylene	2009/10/28	ND, RDL=0.002		ug/g	
		o-Xylene	2009/10/28	ND, RDL=0.002		ug/g	
		Xylene (Total)	2009/10/28	ND, RDL=0.002		ug/g	
	RPD [EC7580-02]	Acetone (2-Propanone)	2009/10/28	NC		%	50
		Benzene	2009/10/28	NC		%	50
		Bromodichloromethane	2009/10/28	NC		%	50
		Bromoform	2009/10/28	NC		%	50
		Bromomethane	2009/10/28	NC		%	50
		Carbon Tetrachloride	2009/10/28	NC		%	50
		Chlorobenzene	2009/10/28	NC		%	50
		Chloroform	2009/10/28	NC		%	50
		Dibromochloromethane	2009/10/28	NC		%	50
		1,2-Dichlorobenzene	2009/10/28	NC		%	50
		1,3-Dichlorobenzene	2009/10/28	NC		%	50
		1,4-Dichlorobenzene	2009/10/28	NC		%	50
		1,1-Dichloroethane	2009/10/28	NC		%	50
		1,2-Dichloroethane	2009/10/28	NC		%	50
		1,1-Dichloroethylene	2009/10/28	NC		%	50
		cis-1,2-Dichloroethylene	2009/10/28	NC		%	50
		trans-1,2-Dichloroethylene	2009/10/28	NC		%	50
		1,2-Dichloropropane	2009/10/28	NC		%	50
		cis-1,3-Dichloropropene	2009/10/28	NC		%	50
		trans-1,3-Dichloropropene	2009/10/28	NC		%	50
		Ethylbenzene	2009/10/28	NC		%	50
		Ethylene Dibromide	2009/10/28	NC		%	50
		Methylene Chloride(Dichloromethane)	2009/10/28	NC		%	50
		Methyl Isobutyl Ketone	2009/10/28	NC		%	50
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28	NC		%	50
		Methyl t-butyl ether (MTBE)	2009/10/28	NC		%	50
		Styrene	2009/10/28	NC		%	50
		1,1,1,2-Tetrachloroethane	2009/10/28	NC		%	50
		1,1,2,2-Tetrachloroethane	2009/10/28	NC		%	50
		Tetrachloroethylene	2009/10/28	NC		%	50
		Toluene	2009/10/28	NC		%	50
		1,1,1-Trichloroethane	2009/10/28	NC		%	50
		1,1,2-Trichloroethane	2009/10/28	NC		%	50
		Trichloroethylene	2009/10/28	NC		%	50
		Vinyl Chloride	2009/10/28	NC		%	50
		p+m-Xylene	2009/10/28	NC		%	50
		o-Xylene	2009/10/28	NC		%	50
		Xylene (Total)	2009/10/28	NC		%	50
1985274	NGN Matrix Spike [EC7589-01]	D10-Anthracene	2009/10/27		73	%	30 - 130
		D14-Terphenyl (FS)	2009/10/27		92	%	30 - 130
		D7-Quinoline	2009/10/27		61	%	30 - 130
		D8-Acenaphthylene	2009/10/27		57	%	30 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1985274 NGN	Matrix Spike [EC7589-01]	Acenaphthene	2009/10/27		67	%	30 - 130	
		Acenaphthylene	2009/10/27		63	%	30 - 130	
		Anthracene	2009/10/27		75	%	30 - 130	
		Benzo(a)anthracene	2009/10/27		87	%	30 - 130	
		Benzo(a)pyrene	2009/10/27		105	%	30 - 130	
		Benzo(b/j)fluoranthene	2009/10/27		79	%	30 - 130	
		Benzo(g,h,i)perylene	2009/10/27		88	%	30 - 130	
		Benzo(k)fluoranthene	2009/10/27		94	%	30 - 130	
		Chrysene	2009/10/27		89	%	30 - 130	
		Dibenz(a,h)anthracene	2009/10/27		97	%	30 - 130	
		Fluoranthene	2009/10/27		96	%	30 - 130	
		Fluorene	2009/10/27		78	%	30 - 130	
		Indeno(1,2,3-cd)pyrene	2009/10/27		98	%	30 - 130	
		1-Methylnaphthalene	2009/10/27		62	%	30 - 130	
		2-Methylnaphthalene	2009/10/27		60	%	30 - 130	
		Naphthalene	2009/10/27		43	%	30 - 130	
		Phenanthrene	2009/10/27		78	%	30 - 130	
		Pyrene	2009/10/27		97	%	30 - 130	
		Spiked Blank	D10-Anthracene	2009/10/27		72	%	30 - 130
			D14-Terphenyl (FS)	2009/10/27		89	%	30 - 130
			D7-Quinoline	2009/10/27		61	%	30 - 130
			D8-Acenaphthylene	2009/10/27		62	%	30 - 130
			Acenaphthene	2009/10/27		70	%	30 - 130
			Acenaphthylene	2009/10/27		66	%	30 - 130
			Anthracene	2009/10/27		74	%	30 - 130
	Benzo(a)anthracene		2009/10/27		87	%	30 - 130	
	Benzo(a)pyrene		2009/10/27		105	%	30 - 130	
	Benzo(b/j)fluoranthene		2009/10/27		78	%	30 - 130	
	Benzo(g,h,i)perylene		2009/10/27		94	%	30 - 130	
	Benzo(k)fluoranthene		2009/10/27		94	%	30 - 130	
	Chrysene		2009/10/27		89	%	30 - 130	
	Dibenz(a,h)anthracene		2009/10/27		101	%	30 - 130	
	Fluoranthene		2009/10/27		94	%	30 - 130	
	Fluorene		2009/10/27		79	%	30 - 130	
	Indeno(1,2,3-cd)pyrene		2009/10/27		102	%	30 - 130	
	1-Methylnaphthalene		2009/10/27		71	%	30 - 130	
	Method Blank		2-Methylnaphthalene	2009/10/27		69	%	30 - 130
			Naphthalene	2009/10/27		57	%	30 - 130
		Phenanthrene	2009/10/27		78	%	30 - 130	
		Pyrene	2009/10/27		94	%	30 - 130	
		D10-Anthracene	2009/10/27		77	%	30 - 130	
		D14-Terphenyl (FS)	2009/10/27		93	%	30 - 130	
		D7-Quinoline	2009/10/27		63	%	30 - 130	
		D8-Acenaphthylene	2009/10/27		64	%	30 - 130	
		Acenaphthene	2009/10/27		ND, RDL=0.01		ug/g	
Acenaphthylene		2009/10/27		ND, RDL=0.005		ug/g		
Anthracene		2009/10/27		ND, RDL=0.005		ug/g		
Benzo(a)anthracene		2009/10/27		ND, RDL=0.01		ug/g		
Benzo(a)pyrene		2009/10/27		ND, RDL=0.005		ug/g		
Benzo(b/j)fluoranthene		2009/10/27		ND, RDL=0.01		ug/g		
Benzo(g,h,i)perylene		2009/10/27		ND, RDL=0.02		ug/g		
Benzo(k)fluoranthene	2009/10/27		ND, RDL=0.01		ug/g			
Chrysene	2009/10/27		ND, RDL=0.01		ug/g			
Dibenz(a,h)anthracene	2009/10/27		ND, RDL=0.02		ug/g			

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1985274 NGN	Method Blank	Fluoranthene	2009/10/27	ND, RDL=0.005		ug/g		
		Fluorene	2009/10/27	ND, RDL=0.005		ug/g		
		Indeno(1,2,3-cd)pyrene	2009/10/27	ND, RDL=0.02		ug/g		
		1-Methylnaphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		2-Methylnaphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		Naphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		Phenanthrene	2009/10/27	ND, RDL=0.005		ug/g		
		Pyrene	2009/10/27	ND, RDL=0.005		ug/g		
		RPD [EC7589-01]	Acenaphthene	2009/10/27	NC		%	50
			Acenaphthylene	2009/10/27	NC		%	50
			Anthracene	2009/10/27	NC		%	50
			Benzo(a)anthracene	2009/10/27	NC		%	50
			Benzo(a)pyrene	2009/10/27	NC		%	50
			Benzo(b/j)fluoranthene	2009/10/27	NC		%	50
			Benzo(g,h,i)perylene	2009/10/27	NC		%	50
	Benzo(k)fluoranthene		2009/10/27	NC		%	50	
	Chrysene		2009/10/27	NC		%	50	
	Dibenz(a,h)anthracene		2009/10/27	NC		%	50	
	Fluoranthene		2009/10/27	NC		%	50	
	Fluorene		2009/10/27	NC		%	50	
	Indeno(1,2,3-cd)pyrene		2009/10/27	NC		%	50	
	1-Methylnaphthalene		2009/10/27	NC		%	50	
	2-Methylnaphthalene		2009/10/27	NC		%	50	
	Naphthalene	2009/10/27	NC		%	50		
	Phenanthrene	2009/10/27	NC		%	50		
	Pyrene	2009/10/27	NC		%	50		
	1985295 AC	RPD	Moisture	2009/10/27	1.1		%	50
	1985302 ICA	RPD	Moisture	2009/10/27	0.9		%	50
	1991219 ICA	RPD	Moisture	2009/10/27	4.2		%	50
	1991359 ZZ	Matrix Spike	o-Terphenyl	2009/10/27		81	%	30 - 130
F2 (C10-C16 Hydrocarbons)			2009/10/27		75	%	60 - 130	
F3 (C16-C34 Hydrocarbons)			2009/10/27		75	%	60 - 130	
F4 (C34-C50 Hydrocarbons)			2009/10/27		75	%	60 - 130	
Spiked Blank		o-Terphenyl	2009/10/27		75	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/27		71	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2009/10/27		71	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2009/10/27		71	%	60 - 130	
Method Blank		o-Terphenyl	2009/10/28		102	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F3 (C16-C34 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F4 (C34-C50 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		RPD	F2 (C10-C16 Hydrocarbons)	2009/10/28	NC		%	50
F3 (C16-C34 Hydrocarbons)			2009/10/28	NC		%	50	
F4 (C34-C50 Hydrocarbons)			2009/10/28	NC		%	50	
1991380 JJE	Matrix Spike	o-Terphenyl	2009/10/28		94	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28		90	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2009/10/28		90	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2009/10/28		90	%	60 - 130	
	Spiked Blank	o-Terphenyl	2009/10/28		89	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28		85	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2009/10/28		85	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2009/10/28		85	%	60 - 130	
	Method Blank	o-Terphenyl	2009/10/28		95	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F3 (C16-C34 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1991380 JJE	Method Blank	F4 (C34-C50 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		RPD						
	RPD	F2 (C10-C16 Hydrocarbons)	2009/10/28	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2009/10/28	31.1		%	50	
1991473 DCA	Matrix Spike	F4 (C34-C50 Hydrocarbons)	2009/10/28	NC		%	50	
		1,4-Difluorobenzene	2009/10/28		104	%	60 - 140	
		4-Bromofluorobenzene	2009/10/28		96	%	60 - 140	
		D10-Ethylbenzene	2009/10/28		114	%	30 - 130	
		D4-1,2-Dichloroethane	2009/10/28		101	%	60 - 140	
		Benzene	2009/10/28		91	%	60 - 140	
		Toluene	2009/10/28		96	%	60 - 140	
		Ethylbenzene	2009/10/28		100	%	60 - 140	
		o-Xylene	2009/10/28		105	%	60 - 140	
		p+m-Xylene	2009/10/28		102	%	60 - 140	
		F1 (C6-C10)	2009/10/28		107	%	60 - 140	
		Spiked Blank	1,4-Difluorobenzene	2009/10/28		106	%	60 - 140
			4-Bromofluorobenzene	2009/10/28		100	%	60 - 140
			D10-Ethylbenzene	2009/10/28		110	%	30 - 130
	D4-1,2-Dichloroethane		2009/10/28		105	%	60 - 140	
	Benzene		2009/10/28		87	%	60 - 140	
	Toluene		2009/10/28		90	%	60 - 140	
	Ethylbenzene		2009/10/28		93	%	60 - 140	
	o-Xylene		2009/10/28		98	%	60 - 140	
	p+m-Xylene		2009/10/28		93	%	60 - 140	
	F1 (C6-C10)		2009/10/28		100	%	60 - 140	
	Method Blank	1,4-Difluorobenzene	2009/10/28		101	%	60 - 140	
		4-Bromofluorobenzene	2009/10/28		93	%	60 - 140	
		D10-Ethylbenzene	2009/10/28		98	%	30 - 130	
		D4-1,2-Dichloroethane	2009/10/28		98	%	60 - 140	
		Benzene	2009/10/28	ND, RDL=0.02		ug/g		
		Toluene	2009/10/28	ND, RDL=0.02		ug/g		
		Ethylbenzene	2009/10/28	ND, RDL=0.02		ug/g		
		o-Xylene	2009/10/28	ND, RDL=0.02		ug/g		
		p+m-Xylene	2009/10/28	ND, RDL=0.04		ug/g		
		Total Xylenes	2009/10/28	ND, RDL=0.04		ug/g		
		F1 (C6-C10)	2009/10/28	ND, RDL=10		ug/g		
F1 (C6-C10) - BTEX		2009/10/28	ND, RDL=10		ug/g			
RPD		Benzene	2009/10/28	NC		%	50	
		Toluene	2009/10/28	NC		%	50	
		Ethylbenzene	2009/10/28	NC		%	50	
		o-Xylene	2009/10/28	NC		%	50	
		p+m-Xylene	2009/10/28	NC		%	50	
		Total Xylenes	2009/10/28	NC		%	50	
	F1 (C6-C10)	2009/10/28	NC		%	50		
	F1 (C6-C10) - BTEX	2009/10/28	NC		%	50		
1991474 LCH	QC Standard	Hot Water Ext. Boron (B)	2009/10/28		98	%	77 - 121	
	Method Blank	Hot Water Ext. Boron (B)	2009/10/28	ND, RDL=0.01		ug/g		
	RPD	Hot Water Ext. Boron (B)	2009/10/28	NC		%	35	
1991497 VIV	Matrix Spike [EC7579-01]	Acid Extractable Antimony (Sb)	2009/10/28		95	%	75 - 125	
		Acid Extractable Arsenic (As)	2009/10/28		98	%	75 - 125	
		Acid Extractable Barium (Ba)	2009/10/28		NC	%	75 - 125	
		Acid Extractable Beryllium (Be)	2009/10/28		99	%	75 - 125	
		Acid Extractable Cadmium (Cd)	2009/10/28		95	%	75 - 125	
		Acid Extractable Chromium (Cr)	2009/10/28		90	%	75 - 125	
		Acid Extractable Cobalt (Co)	2009/10/28		89	%	75 - 125	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1991497 VIV	Matrix Spike [EC7579-01]	Acid Extractable Copper (Cu)	2009/10/28		85	%	75 - 125	
		Acid Extractable Lead (Pb)	2009/10/28		92	%	75 - 125	
		Acid Extractable Molybdenum (Mo)	2009/10/28		94	%	75 - 125	
		Acid Extractable Nickel (Ni)	2009/10/28		88	%	75 - 125	
		Acid Extractable Selenium (Se)	2009/10/28		96	%	75 - 125	
		Acid Extractable Silver (Ag)	2009/10/28		93	%	75 - 125	
		Acid Extractable Thallium (Tl)	2009/10/28		90	%	75 - 125	
	QC Standard	Acid Extractable Vanadium (V)	2009/10/28		95	%	75 - 125	
		Acid Extractable Zinc (Zn)	2009/10/28		91	%	75 - 125	
		Acid Extractable Mercury (Hg)	2009/10/28		99	%	75 - 125	
		Acid Extractable Antimony (Sb)	2009/10/28		99	%	75 - 125	
		Acid Extractable Arsenic (As)	2009/10/28		104	%	75 - 125	
		Acid Extractable Barium (Ba)	2009/10/28		100	%	75 - 125	
		Acid Extractable Beryllium (Be)	2009/10/28		108	%	75 - 125	
		Acid Extractable Cadmium (Cd)	2009/10/28		98	%	75 - 125	
		Acid Extractable Chromium (Cr)	2009/10/28		97	%	75 - 125	
		Acid Extractable Cobalt (Co)	2009/10/28		99	%	75 - 125	
		Acid Extractable Copper (Cu)	2009/10/28		100	%	75 - 125	
		Acid Extractable Lead (Pb)	2009/10/28		100	%	75 - 125	
		Acid Extractable Molybdenum (Mo)	2009/10/28		98	%	75 - 125	
		Acid Extractable Nickel (Ni)	2009/10/28		98	%	75 - 125	
		Acid Extractable Selenium (Se)	2009/10/28		105	%	75 - 125	
		Acid Extractable Silver (Ag)	2009/10/28		99	%	75 - 125	
		Acid Extractable Thallium (Tl)	2009/10/28		98	%	75 - 125	
		Method Blank	Acid Extractable Vanadium (V)	2009/10/28		100	%	75 - 125
	Acid Extractable Zinc (Zn)		2009/10/28		102	%	75 - 125	
	Acid Extractable Mercury (Hg)		2009/10/28		113	%	75 - 125	
	Acid Extractable Antimony (Sb)		2009/10/28	ND, RDL=0.2			ug/g	
	Acid Extractable Arsenic (As)		2009/10/28	ND, RDL=1			ug/g	
	Acid Extractable Barium (Ba)		2009/10/28	ND, RDL=0.5			ug/g	
	Acid Extractable Beryllium (Be)		2009/10/28	ND, RDL=0.2			ug/g	
	Acid Extractable Cadmium (Cd)		2009/10/28	ND, RDL=0.1			ug/g	
	Acid Extractable Chromium (Cr)		2009/10/28	ND, RDL=1			ug/g	
	Acid Extractable Cobalt (Co)		2009/10/28	ND, RDL=0.1			ug/g	
	Acid Extractable Copper (Cu)		2009/10/28	ND, RDL=0.5			ug/g	
	Acid Extractable Lead (Pb)		2009/10/28	ND, RDL=1			ug/g	
	Acid Extractable Molybdenum (Mo)		2009/10/28	ND, RDL=0.5			ug/g	
	Acid Extractable Nickel (Ni)		2009/10/28	ND, RDL=0.5			ug/g	
	Acid Extractable Selenium (Se)		2009/10/28	ND, RDL=0.5			ug/g	
	Acid Extractable Silver (Ag)		2009/10/28	ND, RDL=0.2			ug/g	
	Acid Extractable Thallium (Tl)		2009/10/28	ND, RDL=0.05			ug/g	
	Acid Extractable Vanadium (V)		2009/10/28	ND, RDL=5			ug/g	
	Acid Extractable Zinc (Zn)		2009/10/28	ND, RDL=5			ug/g	
	RPD [EC7579-01]	Acid Extractable Mercury (Hg)	2009/10/28		ND, RDL=0.05		ug/g	
		Acid Extractable Antimony (Sb)	2009/10/28		NC		%	35
Acid Extractable Arsenic (As)		2009/10/28		NC		%	35	
Acid Extractable Barium (Ba)		2009/10/28		0.08		%	35	
Acid Extractable Beryllium (Be)		2009/10/28		NC		%	35	
Acid Extractable Cadmium (Cd)		2009/10/28		NC		%	35	
Acid Extractable Chromium (Cr)		2009/10/28		0.4		%	35	
Acid Extractable Cobalt (Co)		2009/10/28		4.7		%	35	
Acid Extractable Copper (Cu)		2009/10/28		15.5		%	35	
Acid Extractable Lead (Pb)		2009/10/28		NC		%	35	
Acid Extractable Molybdenum (Mo)	2009/10/28		NC		%	35		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1991497 VIV	RPD [EC7579-01]	Acid Extractable Nickel (Ni)	2009/10/28	6.9		%	35
		Acid Extractable Selenium (Se)	2009/10/28	NC		%	35
		Acid Extractable Silver (Ag)	2009/10/28	NC		%	35
		Acid Extractable Thallium (Tl)	2009/10/28	NC		%	35
		Acid Extractable Vanadium (V)	2009/10/28	NC		%	35
		Acid Extractable Zinc (Zn)	2009/10/28	NC		%	35
		Acid Extractable Mercury (Hg)	2009/10/28	NC		%	35
1992223 VRO	Matrix Spike	Chromium (VI)	2009/10/28		29 (2)	%	75 - 125
	QC Standard	Chromium (VI)	2009/10/28		94	%	85 - 115
	Spiked Blank	Chromium (VI)	2009/10/28		103	%	75 - 125
	Method Blank	Chromium (VI)	2009/10/28	ND, RDL=0.2		ug/g	
	RPD	Chromium (VI)	2009/10/28	NC		%	35
1992745 AHA	QC Standard	Conductivity	2009/10/28		103	%	75 - 125
	Method Blank	Conductivity	2009/10/28	ND, RDL=0.002		mS/cm	
	RPD	Conductivity	2009/10/28	1.5		%	35
1992770 AC	RPD	Moisture	2009/10/28	0.8		%	50
1992838 AHA	QC Standard	Conductivity	2009/10/28		105	%	75 - 125
	Method Blank	Conductivity	2009/10/28	ND, RDL=0.002		mS/cm	
	RPD [EC7581-01]	Conductivity	2009/10/28	1.6		%	35
1992931 LHA	Matrix Spike	Free Cyanide	2009/10/28		91	%	80 - 120
	[EC7583-01]	Free Cyanide	2009/10/28		105	%	90 - 110
	Spiked Blank	Free Cyanide	2009/10/28	ND, RDL=0.01		ug/g	
	Method Blank	Free Cyanide	2009/10/28	NC		%	35
	RPD [EC7583-01]	Free Cyanide	2009/10/28	NC		%	35
1993052 LCH	QC Standard	Hot Water Ext. Boron (B)	2009/10/28		95	%	77 - 121
	Method Blank	Hot Water Ext. Boron (B)	2009/10/28	ND, RDL=0.01		ug/g	

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.

QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

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.

(1) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(2) The recovery was below the lower control limit. This may be due in part to the reducing environment of the sample.

Validation Signature Page

Maxxam Job #: A9E2060

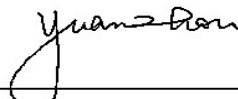
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



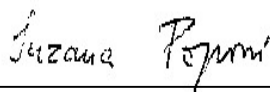

EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist



MAMDOUH SALIB, Analyst, Hydrocarbons



YUAN ZHOU, gc\ms Technician



SUZANA POPOVIC, Supervisor, Hydrocarbons



CRISTINA CARRIERE, Scientific Services

=====
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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 111853
 Site: TTC
 Your C.O.C. #: 16745703, 167457-0

Attention: Jason Cole
 AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/10/30

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E2060
Received: 2009/10/22, 16:10

Sample Matrix: Soil
 # Samples Received: 27

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Hot Water Extractable Boron	13	2009/10/28	2009/10/28	CAM SOP-00408	EPA 3050B
Free Cyanide	13	N/A	2009/10/28	CAM SOP-00457	SM 4500CN-I
Conductivity	13	N/A	2009/10/28	CAM SOP-00414	APHA 2510
Chromium (VI) in Soil	13	2009/10/28	2009/10/28	CAM SOP-00420	EPA 3060A
Petroleum Hydro. CCME F1 & BTEX in Soil	13	2009/10/26	2009/10/28	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	13	2009/10/27	2009/10/28	CAM SOP-00316	CCME CWS
F4G (CCME Hydrocarbons Gravimetric)	1	2009/10/29	2009/10/29	CAM SOP-00316	CCME CWS
Acid Extr. Metals (aqua regia) by ICPMS	13	2009/10/28	2009/10/28	CAM SOP-00447	EPA 6020
MOISTURE	24	N/A	2009/10/27	CAM SOP-00445	McKeague 2nd ed 1978
MOISTURE	1	N/A	2009/10/28	CAM SOP-00445	McKeague 2nd ed 1978
PAH Compounds in Soil by GC/MS (SIM)	3	2009/10/26	2009/10/28	CAM SOP - 00318	EPA 8270
PAH Compounds in Soil by GC/MS (SIM)	1	2009/10/27	2009/10/27	CAM SOP - 00318	EPA 8270
PAH Compounds in Soil by GC/MS (SIM)	11	2009/10/27	2009/10/28	CAM SOP - 00318	EPA 8270
pH CaCl2 EXTRACT	15	2009/10/28	2009/10/28	CAM SOP-00413	SM 4500 H
Sodium Adsorption Ratio (SAR)	13	2009/10/26	2009/10/28	CAM SOP-00102	EPA 6010
Volatile Organic Compounds in Soil	9	2009/10/26	2009/10/28	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Soil	4	2009/10/26	2009/10/29	CAM SOP-00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

Your Project #: 111853
Site: TTC
Your C.O.C. #: 16745703, 167457-0

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2009/10/30

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

=====
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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 43

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EC7580		EC7582		
Sampling Date		2009/10/13 11:00		2009/10/14 10:00		
COC Number		167457-0		167457-0		
	Units	MW5-9	QC Batch	MW6-9	RDL	QC Batch

Inorganics						
Moisture	%	5.8	1991219	7.0	0.2	1991219
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	1991473	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	1991473	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	1991359	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	1991359	Yes		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	1991473	104		1991473
4-Bromofluorobenzene	%	99	1991473	94		1991473
D10-Ethylbenzene	%	105	1991473	108		1991473
D4-1,2-Dichloroethane	%	102	1991473	103		1991473
o-Terphenyl	%	82	1991359	93		1991380
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589	EC7591		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	TP3-2	RDL	QC Batch

Inorganics							
Moisture	%	7.8	6.3	7.3	7.9	0.2	1991219
BTEX & F1 Hydrocarbons							
F1 (C6-C10)	ug/g	ND	ND	ND	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	ND	10	1991473
F2-F4 Hydrocarbons							
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	17	16	11	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	ND	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	Yes	Yes	Yes		1991380
Surrogate Recovery (%)							
1,4-Difluorobenzene	%	106	101	102	103		1991473
4-Bromofluorobenzene	%	97	96	95	99		1991473
D10-Ethylbenzene	%	106	106	104	106		1991473
D4-1,2-Dichloroethane	%	102	100	102	101		1991473
o-Terphenyl	%	92	91	92	92		1991380
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EC7592		EC7593		
Sampling Date		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		
	Units	TP4-1	QC Batch	TP5-2	RDL	QC Batch

Inorganics						
Moisture	%	11	1991219	18	0.2	1985302
BTEX & F1 Hydrocarbons						
Benzene	ug/g			ND	0.02	1991473
Toluene	ug/g			ND	0.02	1991473
Ethylbenzene	ug/g			ND	0.02	1991473
o-Xylene	ug/g			ND	0.02	1991473
p+m-Xylene	ug/g			ND	0.04	1991473
Total Xylenes	ug/g			ND	0.04	1991473
F1 (C6-C10)	ug/g	ND	1991473	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	1991473	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	1991380	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	14	1991380	280	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	1991380	860	10	1991380
Reached Baseline at C50	ug/g	Yes	1991380	No		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	102	1991473	105		1991473
4-Bromofluorobenzene	%	96	1991473	98		1991473
D10-Ethylbenzene	%	105	1991473	111		1991473
D4-1,2-Dichloroethane	%	102	1991473	102		1991473
o-Terphenyl	%	90	1991380	93		1991380

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EC7595	EC7597	EC7598		
Sampling Date		2009/10/15 14:00	2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-10	MW1-6	MW1-12	RDL	QC Batch

Inorganics						
Moisture	%	6.3	7.9	7.3	0.2	1991219
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	15	27	33	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	Yes	Yes		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	106	104	100		1991473
4-Bromofluorobenzene	%	99	96	93		1991473
D10-Ethylbenzene	%	107	107	105		1991473
D4-1,2-Dichloroethane	%	102	103	102		1991473
o-Terphenyl	%	94	91	92		1991380
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EC7600		EC7602		
Sampling Date		2009/10/16 09:00		2009/10/15 10:00		
COC Number		167457-0		167457-0		
	Units	MW2-5	QC Batch	MW3-5	RDL	QC Batch

Inorganics						
Moisture	%	8.5	1991219	5.8	0.2	1992770
BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	1991473	ND	10	1991473
F1 (C6-C10) - BTEX	ug/g	ND	1991473	ND	10	1991473
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/g	ND	1991380	ND	10	1991380
F3 (C16-C34 Hydrocarbons)	ug/g	19	1991380	ND	10	1991380
F4 (C34-C50 Hydrocarbons)	ug/g	ND	1991380	ND	10	1991380
Reached Baseline at C50	ug/g	Yes	1991380	Yes		1991380
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105	1991473	100		1991473
4-Bromofluorobenzene	%	98	1991473	96		1991473
D10-Ethylbenzene	%	100	1991473	103		1991473
D4-1,2-Dichloroethane	%	101	1991473	100		1991473
o-Terphenyl	%	89	1991380	90		1991380
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7579	EC7579		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00		
COC Number		167457-0	167457-0		
	Units	MW5-2	MW5-2 Lab-Dup	RDL	QC Batch

Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.32		N/A	1984277
Inorganics					
Conductivity	mS/cm	0.12		0.002	1992745
Free Cyanide	ug/g	ND		0.01	1992931
Moisture	%	7.8		0.2	1985295
Available (CaCl ₂) pH	pH	7.76			1993034
Metals					
Hot Water Ext. Boron (B)	ug/g	0.04		0.01	1993052
Chromium (VI)	ug/g	ND		0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	1	1	1	1991497
Acid Extractable Barium (Ba)	ug/g	49	49	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.3	0.3	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	ND	ND	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	10	10	1	1991497
Acid Extractable Cobalt (Co)	ug/g	3.8	3.6	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	11	9.1	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	4	3	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	6.9	6.4	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.07	0.06	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	19	18	5	1991497
Acid Extractable Zinc (Zn)	ug/g	24	25	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	ND	0.05	1991497
ND = Not detected RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch					

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7581	EC7581		
Sampling Date		2009/10/14 10:00	2009/10/14 10:00		
COC Number		167457-0	167457-0		
	Units	MW6-1	MW6-1 Lab-Dup	RDL	QC Batch

Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.43		N/A	1984277
Inorganics					
Conductivity	mS/cm	0.11	0.11	0.002	1992838
Free Cyanide	ug/g	ND		0.01	1992931
Moisture	%	8.7		0.2	1985295
Available (CaCl ₂) pH	pH	7.74			1993034
Metals					
Hot Water Ext. Boron (B)	ug/g	0.08		0.01	1993052
Chromium (VI)	ug/g	ND		0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND		0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2		1	1991497
Acid Extractable Barium (Ba)	ug/g	48		0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.3		0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	ND		0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	10		1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.3		0.1	1991497
Acid Extractable Copper (Cu)	ug/g	11		0.5	1991497
Acid Extractable Lead (Pb)	ug/g	5		1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND		0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	8.3		0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND		0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND		0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.08		0.05	1991497
Acid Extractable Vanadium (V)	ug/g	16		5	1991497
Acid Extractable Zinc (Zn)	ug/g	26		5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND		0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7583	EC7583		
Sampling Date		2009/10/14 14:00	2009/10/14 14:00		
COC Number		167457-0	167457-0		
	Units	MW7-4	MW7-4 Lab-Dup	RDL	QC Batch

Calculated Parameters					
Sodium Adsorption Ratio	N/A	0.40		N/A	1984277
Inorganics					
Conductivity	mS/cm	0.33		0.002	1992745
Free Cyanide	ug/g	ND	ND	0.01	1992931
Moisture	%	20		0.2	1985295
Available (CaCl ₂) pH	pH	7.24			1993034
Metals					
Hot Water Ext. Boron (B)	ug/g	0.82		0.01	1991474
Chromium (VI)	ug/g	ND		0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND		0.2	1991497
Acid Extractable Arsenic (As)	ug/g	3		1	1991497
Acid Extractable Barium (Ba)	ug/g	56		0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.6		0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.2		0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	13		1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.8		0.1	1991497
Acid Extractable Copper (Cu)	ug/g	12		0.5	1991497
Acid Extractable Lead (Pb)	ug/g	15		1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND		0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	9.2		0.5	1991497
Acid Extractable Selenium (Se)	ug/g	0.5		0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND		0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.09		0.05	1991497
Acid Extractable Vanadium (V)	ug/g	23		5	1991497
Acid Extractable Zinc (Zn)	ug/g	40		5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND		0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7587		EC7588		
Sampling Date		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		
	Units	TP1-3	QC Batch	TP2-1	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.27	1984277	0.31	N/A	1984277
Inorganics						
Conductivity	mS/cm	0.14	1992745	0.13	0.002	1992745
Free Cyanide	ug/g	ND	1992931	ND	0.01	1992931
Moisture	%	14	1985295	14	0.2	1985295
Available (CaCl2) pH	pH	7.73	1993034	7.55		1992128
Metals						
Hot Water Ext. Boron (B)	ug/g	0.33	1993052	0.17	0.01	1993052
Chromium (VI)	ug/g	ND	1992223	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2	1991497	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	67	1991497	60	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.3	1991497	0.3	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.1	1991497	ND	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	12	1991497	10	1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.8	1991497	4.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	12	1991497	15	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	9	1991497	16	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	9.4	1991497	8.6	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.09	1991497	0.08	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	21	1991497	18	5	1991497
Acid Extractable Zinc (Zn)	ug/g	32	1991497	30	5	1991497
Acid Extractable Mercury (Hg)	ug/g	0.06	1991497	ND	0.05	1991497
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7590		EC7592		
Sampling Date		2009/10/19		2009/10/19		
COC Number		167457-0		167457-0		
	Units	TP3-1	QC Batch	TP4-1	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.33	1984277	0.28	N/A	1984277
Inorganics						
Conductivity	mS/cm	0.096	1992745	0.12	0.002	1992838
Free Cyanide	ug/g	ND	1992931	ND	0.01	1992931
Moisture	%	13	1985295		0.2	
Available (CaCl2) pH	pH	7.86	1993034	7.40		1993034
Metals						
Hot Water Ext. Boron (B)	ug/g	0.05	1993052	0.73	0.01	1991474
Chromium (VI)	ug/g	ND	1992223	0.4	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	0.4	1991497	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2	1991497	3	1	1991497
Acid Extractable Barium (Ba)	ug/g	26	1991497	58	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	ND	1991497	0.5	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.5	1991497	0.3	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	11	1991497	12	1	1991497
Acid Extractable Cobalt (Co)	ug/g	3.2	1991497	4.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	24	1991497	9.7	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	610	1991497	13	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	0.9	1991497	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	22	1991497	8.3	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	1991497	0.6	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	ND	1991497	0.06	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	12	1991497	21	5	1991497
Acid Extractable Zinc (Zn)	ug/g	130	1991497	38	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	1991497	ND	0.05	1991497
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7593		EC7596		
Sampling Date		2009/10/19		2009/10/16 13:00		
COC Number		167457-0		167457-0		
	Units	TP5-2	QC Batch	MW1-2	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	0.32	1984277	1.3	N/A	1984277
Inorganics						
Conductivity	mS/cm	0.17	1992745	0.47	0.002	1992745
Free Cyanide	ug/g	ND	1992931	ND	0.01	1992931
Moisture	%		1985295	13	0.2	1985295
Available (CaCl ₂) pH	pH	7.42	1992128	7.52		1993034
Metals						
Hot Water Ext. Boron (B)	ug/g	0.45	1993052	0.33	0.01	1993052
Chromium (VI)	ug/g	ND	1992223	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	3	1991497	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	54	1991497	73	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.6	1991497	0.4	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	0.2	1991497	0.2	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	12	1991497	13	1	1991497
Acid Extractable Cobalt (Co)	ug/g	4.6	1991497	5.9	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	9.7	1991497	14	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	12	1991497	17	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	9.6	1991497	12	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.07	1991497	0.09	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	25	1991497	21	5	1991497
Acid Extractable Zinc (Zn)	ug/g	40	1991497	43	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	1991497	ND	0.05	1991497
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7599		EC7601		
Sampling Date		2009/10/16 09:00		2009/10/15 10:00		
COC Number		167457-0		167457-0		
	Units	MW2-2	QC Batch	MW3-1	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A	1.2	1984277	6.4	N/A	1984277
Inorganics						
Conductivity	mS/cm	0.13	1992745	1.3	0.002	1992838
Free Cyanide	ug/g	ND	1992931	ND	0.01	1992931
Moisture	%	9.2	1985295		0.2	
Available (CaCl2) pH	pH	7.62	1992128	7.57		1993034
Metals						
Hot Water Ext. Boron (B)	ug/g	0.06	1993052	0.45	0.01	1993052
Chromium (VI)	ug/g	ND	1992223	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g	2	1991497	2	1	1991497
Acid Extractable Barium (Ba)	ug/g	43	1991497	46	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g	0.3	1991497	0.4	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g	ND	1991497	0.2	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g	10	1991497	11	1	1991497
Acid Extractable Cobalt (Co)	ug/g	6.0	1991497	3.6	0.1	1991497
Acid Extractable Copper (Cu)	ug/g	12	1991497	7.6	0.5	1991497
Acid Extractable Lead (Pb)	ug/g	6	1991497	9	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g	11	1991497	7.4	0.5	1991497
Acid Extractable Selenium (Se)	ug/g	ND	1991497	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g	ND	1991497	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g	0.10	1991497	0.07	0.05	1991497
Acid Extractable Vanadium (V)	ug/g	17	1991497	20	5	1991497
Acid Extractable Zinc (Zn)	ug/g	25	1991497	32	5	1991497
Acid Extractable Mercury (Hg)	ug/g	ND	1991497	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 METALS & INORGANICS COMPLETE (SOIL)

Maxxam ID		EC7601	EC7603	EC7604		
Sampling Date		2009/10/15 10:00	2009/10/15 14:00	2009/10/15 14:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW3-1 Lab-Dup	MW4-2	MW4-12	RDL	QC Batch

Calculated Parameters						
Sodium Adsorption Ratio	N/A		0.30	0.26	N/A	1984277
Inorganics						
Conductivity	mS/cm		0.17	0.18	0.002	1992838
Free Cyanide	ug/g		ND	ND	0.01	1992931
Moisture	%		11	10	0.2	1985295
Available (CaCl2) pH	pH	7.58	7.63	7.63		1993034
Metals						
Hot Water Ext. Boron (B)	ug/g		0.22	0.22	0.01	1993052
Chromium (VI)	ug/g		ND	ND	0.2	1992223
Acid Extractable Antimony (Sb)	ug/g		ND	ND	0.2	1991497
Acid Extractable Arsenic (As)	ug/g		2	2	1	1991497
Acid Extractable Barium (Ba)	ug/g		57	60	0.5	1991497
Acid Extractable Beryllium (Be)	ug/g		0.3	0.4	0.2	1991497
Acid Extractable Cadmium (Cd)	ug/g		0.1	0.1	0.1	1991497
Acid Extractable Chromium (Cr)	ug/g		12	12	1	1991497
Acid Extractable Cobalt (Co)	ug/g		5.6	5.2	0.1	1991497
Acid Extractable Copper (Cu)	ug/g		12	10	0.5	1991497
Acid Extractable Lead (Pb)	ug/g		7	7	1	1991497
Acid Extractable Molybdenum (Mo)	ug/g		ND	ND	0.5	1991497
Acid Extractable Nickel (Ni)	ug/g		9.7	9.6	0.5	1991497
Acid Extractable Selenium (Se)	ug/g		ND	ND	0.5	1991497
Acid Extractable Silver (Ag)	ug/g		ND	ND	0.2	1991497
Acid Extractable Thallium (Tl)	ug/g		0.09	0.08	0.05	1991497
Acid Extractable Vanadium (V)	ug/g		21	21	5	1991497
Acid Extractable Zinc (Zn)	ug/g		34	31	5	1991497
Acid Extractable Mercury (Hg)	ug/g		ND	ND	0.05	1991497

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EC7579	EC7580	EC7582		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-2	MW5-9	MW6-9	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)						
D10-Anthracene	%	69	73	67		1985274
D14-Terphenyl (FS)	%	83	85	82		1985274
D7-Quinoline	%	55	53	45		1985274
D8-Acenaphthylene	%	53	57	43		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	TP2-2 Lab-Dup	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	ND	0.005	1985274
Benzo(b,j)fluoranthene	ug/g	ND	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	69	74	74	71		1985274
D14-Terphenyl (FS)	%	84	88	90	88		1985274
D7-Quinoline	%	53	57	60	47		1985274
D8-Acenaphthylene	%	52	58	51	50		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EC7590		EC7591	EC7592		
Sampling Date		2009/10/19		2009/10/19	2009/10/19		
COC Number		167457-0		167457-0	167457-0		
	Units	TP3-1	RDL	TP3-2	TP4-1	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	0.02	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	0.01	ND	ND	0.005	1985274
Anthracene	ug/g	ND	0.01	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	0.03	0.02	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	0.04	0.01	ND	0.007	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	0.04	0.02	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	0.04	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	0.02	0.02	ND	ND	0.01	1985274
Chrysene	ug/g	0.03	0.02	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	0.04	ND	ND	0.02	1985274
Fluoranthene	ug/g	0.08	0.01	ND	0.011	0.005	1985274
Fluorene	ug/g	ND	0.01	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	0.04	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	0.01	ND	ND	0.005	1985274
Phenanthrene	ug/g	0.03	0.01	ND	ND	0.005	1985274
Pyrene	ug/g	0.07	0.01	ND	0.010	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	82		77	72		1985274
D14-Terphenyl (FS)	%	85		88	91		1985274
D7-Quinoline	%	58		53	51		1985274
D8-Acenaphthylene	%	68		45	53		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EC7593		EC7595	EC7597		
Sampling Date		2009/10/19		2009/10/15 14:00	2009/10/16 13:00		
COC Number		167457-0		167457-0	167457-0		
	Units	TP5-2	RDL	MW4-10	MW1-6	RDL	QC Batch

Polyaromatic Hydrocarbons							
Acenaphthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	0.1	ND	ND	0.005	1985274
Anthracene	ug/g	ND	0.1	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	0.2	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	0.4	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	0.2	ND	ND	0.01	1985274
Chrysene	ug/g	ND	0.2	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	0.4	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	0.1	ND	ND	0.005	1985274
Fluorene	ug/g	ND	0.1	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	0.4	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	0.1	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Pyrene	ug/g	ND	0.1	ND	ND	0.005	1985274
Surrogate Recovery (%)							
D10-Anthracene	%	80		75	72		1985274
D14-Terphenyl (FS)	%	112		91	85		1985274
D7-Quinoline	%	96		66	52		1985274
D8-Acenaphthylene	%	92		63	56		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EC7598	EC7600	EC7602		
Sampling Date		2009/10/16 13:00	2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW1-12	MW2-5	MW3-5	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/g	ND	ND	ND	0.01	1985274
Acenaphthylene	ug/g	ND	ND	ND	0.005	1985274
Anthracene	ug/g	ND	ND	ND	0.005	1985274
Benzo(a)anthracene	ug/g	ND	ND	ND	0.01	1985274
Benzo(a)pyrene	ug/g	ND	ND	ND	0.005	1985274
Benzo(b/j)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Benzo(g,h,i)perylene	ug/g	ND	ND	ND	0.02	1985274
Benzo(k)fluoranthene	ug/g	ND	ND	ND	0.01	1985274
Chrysene	ug/g	ND	ND	ND	0.01	1985274
Dibenz(a,h)anthracene	ug/g	ND	ND	ND	0.02	1985274
Fluoranthene	ug/g	ND	ND	ND	0.005	1985274
Fluorene	ug/g	ND	ND	ND	0.005	1985274
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	ND	0.02	1985274
1-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
2-Methylnaphthalene	ug/g	ND	ND	ND	0.005	1985274
Naphthalene	ug/g	ND	ND	ND	0.005	1985274
Phenanthrene	ug/g	ND	ND	ND	0.005	1985274
Pyrene	ug/g	ND	ND	ND	0.005	1985274
Surrogate Recovery (%)						
D10-Anthracene	%	76	71	72		1985274
D14-Terphenyl (FS)	%	91	85	90		1985274
D7-Quinoline	%	62	56	44		1985274
D8-Acenaphthylene	%	61	57	55		1985274

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7580	EC7580	EC7582		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-9	MW5-9 Lab-Dup	MW6-9	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	ND	0.002	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	ND	ND	0.002	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7580	EC7580	EC7582		
Sampling Date		2009/10/13 11:00	2009/10/13 11:00	2009/10/14 10:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW5-9	MW5-9 Lab-Dup	MW6-9	RDL	QC Batch

Toluene	ug/g	0.003	0.003	0.010	0.002	1985227
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	ND	ND	0.008	0.002	1985227
o-Xylene	ug/g	ND	ND	0.002	0.002	1985227
Xylene (Total)	ug/g	ND	ND	0.011	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	83	79	85		1985227
D4-1,2-Dichloroethane	%	94	89	98		1985227
D8-Toluene	%	100	106	104		1985227

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	0.002	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	ND	0.004	0.004	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
Toluene	ug/g	0.006	0.013	0.015	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7584	EC7586	EC7589		
Sampling Date		2009/10/14 14:00	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	MW7-8	TP1-1	TP2-2	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.007	0.009	0.011	0.002	1985227
o-Xylene	ug/g	ND	0.002	0.003	0.002	1985227
Xylene (Total)	ug/g	0.007	0.012	0.014	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	88	89	92		1985227
D4-1,2-Dichloroethane	%	94	93	95		1985227
D8-Toluene	%	110	107	105		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7591	EC7592	EC7594		
Sampling Date		2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	TP3-2	TP4-1	TP5-5	RDL	QC Batch
Inorganics						
Moisture	%			17	0.2	1985302
Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	0.1	ND	0.1	1985227
Benzene	ug/g	0.003	ND	ND	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.003	ND	0.003	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7591	EC7592	EC7594		
Sampling Date		2009/10/19	2009/10/19	2009/10/19		
COC Number		167457-0	167457-0	167457-0		
	Units	TP3-2	TP4-1	TP5-5	RDL	QC Batch
Toluene	ug/g	0.011	0.005	0.005	0.002	1985227
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.006	ND	0.007	0.002	1985227
o-Xylene	ug/g	ND	ND	0.003	0.002	1985227
Xylene (Total)	ug/g	0.006	ND	0.011	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	88	77	84		1985227
D4-1,2-Dichloroethane	%	93	97	95		1985227
D8-Toluene	%	107	114	110		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7595	EC7597	EC7598		
Sampling Date		2009/10/15 14:00	2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-10	MW1-6	MW1-12	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/g	ND	ND	ND	0.1	1985227
Benzene	ug/g	ND	0.003	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.002	0.003	0.002	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	ND	0.002	1985227
Toluene	ug/g	0.011	0.018	0.013	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7595	EC7597	EC7598		
Sampling Date		2009/10/15 14:00	2009/10/16 13:00	2009/10/16 13:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW4-10	MW1-6	MW1-12	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.008	0.012	0.011	0.002	1985227
o-Xylene	ug/g	0.002	0.003	0.003	0.002	1985227
Xylene (Total)	ug/g	0.011	0.016	0.014	0.002	1985227
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	83	80	78		1985227
D4-1,2-Dichloroethane	%	96	96	96		1985227
D8-Toluene	%	110	115	115		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7600	EC7602		
Sampling Date		2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0		
	Units	MW2-5	MW3-5	RDL	QC Batch

Volatile Organics					
Acetone (2-Propanone)	ug/g	ND	ND	0.1	1985227
Benzene	ug/g	0.004	0.003	0.002	1985227
Bromodichloromethane	ug/g	ND	ND	0.002	1985227
Bromoform	ug/g	ND	ND	0.002	1985227
Bromomethane	ug/g	ND	ND	0.003	1985227
Carbon Tetrachloride	ug/g	ND	ND	0.002	1985227
Chlorobenzene	ug/g	ND	ND	0.002	1985227
Chloroform	ug/g	ND	ND	0.002	1985227
Dibromochloromethane	ug/g	ND	ND	0.002	1985227
1,2-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,3-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,4-Dichlorobenzene	ug/g	ND	ND	0.002	1985227
1,1-Dichloroethane	ug/g	ND	ND	0.002	1985227
1,2-Dichloroethane	ug/g	ND	ND	0.002	1985227
1,1-Dichloroethylene	ug/g	ND	ND	0.002	1985227
cis-1,2-Dichloroethylene	ug/g	ND	ND	0.002	1985227
trans-1,2-Dichloroethylene	ug/g	ND	ND	0.002	1985227
1,2-Dichloropropane	ug/g	ND	ND	0.002	1985227
cis-1,3-Dichloropropene	ug/g	ND	ND	0.002	1985227
trans-1,3-Dichloropropene	ug/g	ND	ND	0.002	1985227
Ethylbenzene	ug/g	0.003	0.004	0.002	1985227
Ethylene Dibromide	ug/g	ND	ND	0.002	1985227
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	0.003	1985227
Methyl Isobutyl Ketone	ug/g	ND	ND	0.03	1985227
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	0.03	1985227
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	0.002	1985227
Styrene	ug/g	ND	ND	0.002	1985227
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	0.002	1985227
1,1,1,2,2-Tetrachloroethane	ug/g	ND	ND	0.002	1985227
Tetrachloroethylene	ug/g	ND	ND	0.002	1985227
Toluene	ug/g	0.019	0.016	0.002	1985227

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EC7600	EC7602		
Sampling Date		2009/10/16 09:00	2009/10/15 10:00		
COC Number		167457-0	167457-0		
	Units	MW2-5	MW3-5	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	0.002	1985227
1,1,2-Trichloroethane	ug/g	ND	ND	0.002	1985227
Trichloroethylene	ug/g	ND	ND	0.002	1985227
Vinyl Chloride	ug/g	ND	ND	0.002	1985227
p+m-Xylene	ug/g	0.016	0.010	0.002	1985227
o-Xylene	ug/g	0.004	0.003	0.002	1985227
Xylene (Total)	ug/g	0.020	0.013	0.002	1985227
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	81	89		1985227
D4-1,2-Dichloroethane	%	95	97		1985227
D8-Toluene	%	113	106		1985227
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EC7585	EC7601	EC7605		
Sampling Date		2009/10/14 14:00	2009/10/15 10:00	2009/10/15 14:00		
COC Number		167457-0	167457-0	167457-0		
	Units	MW7-12	MW3-1	MW4-4	RDL	QC Batch

Inorganics						
Moisture	%		13		0.2	1985295
Available (CaCl2) pH	pH	7.30		7.74		1993034

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
 Report Date: 2009/10/30

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		EC7593		
Sampling Date		2009/10/19		
COC Number		167457-0		
	Units	TP5-2	RDL	QC Batch

F2-F4 Hydrocarbons				
F4G-sg (Grav. Heavy Hydrocarbons)	ug/g	4000	100	1994785

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E2060
Report Date: 2009/10/30

AECOM Canada Ltd
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Project name: TTC

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

F1-BTEX Analysis: The BTEX results used for the F1-BTEX calculation were obtained from Headspace-GC analysis. F1 & BTEX were extracted beyond the recommended hold time specified in the reference method for samples MW5-9, MW6-9, MW7-8, MW4-10, MW1-6, MW1-12, MW2-5, and MW3-5. Results should be viewed with the appropriate discretion.

Sample EC7579-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7580-01: VOC Analysis: The sample was analyzed after the 14 day holding time specified by the method had expired.

Sample EC7587-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7588-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7590-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7590-01: PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample EC7592-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7593-01: PAH Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample EC7603-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Sample EC7604-: SAR Analysis: Sodium was not detected. To report SAR the sodium detection limit was used in the calculation. This value represents a maximum ratio.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report
 Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227 AGE	Matrix Spike [EC7580-02]	4-Bromofluorobenzene	2009/10/29		97	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/29		88	%	60 - 140
		D8-Toluene	2009/10/29		110	%	60 - 140
		Acetone (2-Propanone)	2009/10/29		208 (1)	%	24 - 171
		Benzene	2009/10/29		101	%	39 - 137
		Bromodichloromethane	2009/10/29		101	%	45 - 131
		Bromoform	2009/10/29		82	%	44 - 131
		Bromomethane	2009/10/29		121	%	20 - 146
		Carbon Tetrachloride	2009/10/29		133	%	40 - 139
		Chlorobenzene	2009/10/29		105	%	45 - 140
		Chloroform	2009/10/29		102	%	48 - 128
		Dibromochloromethane	2009/10/29		98	%	52 - 135
		1,2-Dichlorobenzene	2009/10/29		96	%	39 - 145
		1,3-Dichlorobenzene	2009/10/29		105	%	38 - 158
		1,4-Dichlorobenzene	2009/10/29		106	%	35 - 159
		1,1-Dichloroethane	2009/10/29		107	%	48 - 131
		1,2-Dichloroethane	2009/10/29		89	%	43 - 123
		1,1-Dichloroethylene	2009/10/29		117	%	50 - 134
		cis-1,2-Dichloroethylene	2009/10/29		107	%	45 - 136
		trans-1,2-Dichloroethylene	2009/10/29		113	%	45 - 138
		1,2-Dichloropropane	2009/10/29		99	%	51 - 130
		cis-1,3-Dichloropropene	2009/10/29		98	%	39 - 143
		trans-1,3-Dichloropropene	2009/10/29		83	%	33 - 135
		Ethylbenzene	2009/10/29		121	%	46 - 150
		Ethylene Dibromide	2009/10/29		97	%	48 - 136
		Methylene Chloride(Dichloromethane)	2009/10/29		103	%	47 - 124
		Methyl Isobutyl Ketone	2009/10/29		79	%	48 - 133
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29		133	%	39 - 160
		Methyl t-butyl ether (MTBE)	2009/10/29		86	%	37 - 150
		Styrene	2009/10/29		121	%	27 - 148
		1,1,1,2-Tetrachloroethane	2009/10/29		112	%	51 - 140
		1,1,2,2-Tetrachloroethane	2009/10/29		77	%	46 - 128
		Tetrachloroethylene	2009/10/29		122	%	45 - 154
		Toluene	2009/10/29		113	%	30 - 158
		1,1,1-Trichloroethane	2009/10/29		110	%	44 - 136
		1,1,2-Trichloroethane	2009/10/29		90	%	56 - 135
		Trichloroethylene	2009/10/29		110	%	39 - 146
		Vinyl Chloride	2009/10/29		116	%	34 - 136
		p+m-Xylene	2009/10/29		128	%	29 - 161
		o-Xylene	2009/10/29		116	%	45 - 150
	Spiked Blank	4-Bromofluorobenzene	2009/10/28		106	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/28		98	%	60 - 140
		D8-Toluene	2009/10/28		97	%	60 - 140
		Acetone (2-Propanone)	2009/10/28		93	%	60 - 140
		Benzene	2009/10/28		94	%	60 - 140
		Bromodichloromethane	2009/10/28		102	%	60 - 140
		Bromoform	2009/10/28		89	%	60 - 140
		Bromomethane	2009/10/28		108	%	60 - 140
		Carbon Tetrachloride	2009/10/28		112	%	60 - 140
		Chlorobenzene	2009/10/28		92	%	60 - 140
		Chloroform	2009/10/28		98	%	60 - 140
		Dibromochloromethane	2009/10/28		94	%	60 - 140
		1,2-Dichlorobenzene	2009/10/28		91	%	60 - 140
		1,3-Dichlorobenzene	2009/10/28		92	%	60 - 140

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227	AGE	Spiked Blank					
		1,4-Dichlorobenzene	2009/10/28		97	%	60 - 140
		1,1-Dichloroethane	2009/10/28		99	%	60 - 140
		1,2-Dichloroethane	2009/10/28		96	%	60 - 140
		1,1-Dichloroethylene	2009/10/28		102	%	60 - 140
		cis-1,2-Dichloroethylene	2009/10/28		104	%	60 - 140
		trans-1,2-Dichloroethylene	2009/10/28		103	%	60 - 140
		1,2-Dichloropropane	2009/10/28		99	%	60 - 140
		cis-1,3-Dichloropropene	2009/10/28		104	%	60 - 140
		trans-1,3-Dichloropropene	2009/10/28		93	%	60 - 140
		Ethylbenzene	2009/10/28		97	%	60 - 140
		Ethylene Dibromide	2009/10/28		102	%	60 - 140
		Methylene Chloride(Dichloromethane)	2009/10/28		102	%	60 - 140
		Methyl Isobutyl Ketone	2009/10/28		106	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28		96	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/28		100	%	60 - 140
		Styrene	2009/10/28		111	%	60 - 140
		1,1,1,2-Tetrachloroethane	2009/10/28		99	%	60 - 140
		1,1,2,2-Tetrachloroethane	2009/10/28		89	%	60 - 140
		Tetrachloroethylene	2009/10/28		96	%	60 - 140
		Toluene	2009/10/28		93	%	60 - 140
		1,1,1-Trichloroethane	2009/10/28		97	%	60 - 140
		1,1,2-Trichloroethane	2009/10/28		90	%	60 - 140
		Trichloroethylene	2009/10/28		102	%	60 - 140
		Vinyl Chloride	2009/10/28		98	%	60 - 140
		p+m-Xylene	2009/10/28		100	%	60 - 140
		o-Xylene	2009/10/28		97	%	60 - 140
	Method Blank	4-Bromofluorobenzene	2009/10/28		101	%	60 - 140
		D4-1,2-Dichloroethane	2009/10/28		92	%	60 - 140
		D8-Toluene	2009/10/28		96	%	60 - 140
		Acetone (2-Propanone)	2009/10/28	ND, RDL=0.1		ug/g	
		Benzene	2009/10/28	ND, RDL=0.002		ug/g	
		Bromodichloromethane	2009/10/28	ND, RDL=0.002		ug/g	
		Bromoform	2009/10/28	ND, RDL=0.002		ug/g	
		Bromomethane	2009/10/28	ND, RDL=0.003		ug/g	
		Carbon Tetrachloride	2009/10/28	ND, RDL=0.002		ug/g	
		Chlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		Chloroform	2009/10/28	ND, RDL=0.002		ug/g	
		Dibromochloromethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,3-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,4-Dichlorobenzene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		cis-1,2-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		trans-1,2-Dichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		1,2-Dichloropropane	2009/10/28	ND, RDL=0.002		ug/g	
		cis-1,3-Dichloropropene	2009/10/28	ND, RDL=0.002		ug/g	
		trans-1,3-Dichloropropene	2009/10/28	ND, RDL=0.002		ug/g	
		Ethylbenzene	2009/10/28	ND, RDL=0.002		ug/g	
		Ethylene Dibromide	2009/10/28	ND, RDL=0.002		ug/g	
		Methylene Chloride(Dichloromethane)	2009/10/28	ND, RDL=0.003		ug/g	
		Methyl Isobutyl Ketone	2009/10/28	ND, RDL=0.03		ug/g	
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28	ND, RDL=0.03		ug/g	
		Methyl t-butyl ether (MTBE)	2009/10/28	ND, RDL=0.002		ug/g	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1985227	AGE Method Blank	Styrene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,1,2-Tetrachloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,2,2-Tetrachloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		Tetrachloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		Toluene	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,1-Trichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		1,1,2-Trichloroethane	2009/10/28	ND, RDL=0.002		ug/g	
		Trichloroethylene	2009/10/28	ND, RDL=0.002		ug/g	
		Vinyl Chloride	2009/10/28	ND, RDL=0.002		ug/g	
		p+m-Xylene	2009/10/28	ND, RDL=0.002		ug/g	
		o-Xylene	2009/10/28	ND, RDL=0.002		ug/g	
		Xylene (Total)	2009/10/28	ND, RDL=0.002		ug/g	
	RPD [EC7580-02]	Acetone (2-Propanone)	2009/10/28	NC		%	50
		Benzene	2009/10/28	NC		%	50
		Bromodichloromethane	2009/10/28	NC		%	50
		Bromoform	2009/10/28	NC		%	50
		Bromomethane	2009/10/28	NC		%	50
		Carbon Tetrachloride	2009/10/28	NC		%	50
		Chlorobenzene	2009/10/28	NC		%	50
		Chloroform	2009/10/28	NC		%	50
		Dibromochloromethane	2009/10/28	NC		%	50
		1,2-Dichlorobenzene	2009/10/28	NC		%	50
		1,3-Dichlorobenzene	2009/10/28	NC		%	50
		1,4-Dichlorobenzene	2009/10/28	NC		%	50
		1,1-Dichloroethane	2009/10/28	NC		%	50
		1,2-Dichloroethane	2009/10/28	NC		%	50
		1,1-Dichloroethylene	2009/10/28	NC		%	50
		cis-1,2-Dichloroethylene	2009/10/28	NC		%	50
		trans-1,2-Dichloroethylene	2009/10/28	NC		%	50
		1,2-Dichloropropane	2009/10/28	NC		%	50
		cis-1,3-Dichloropropene	2009/10/28	NC		%	50
		trans-1,3-Dichloropropene	2009/10/28	NC		%	50
		Ethylbenzene	2009/10/28	NC		%	50
		Ethylene Dibromide	2009/10/28	NC		%	50
		Methylene Chloride(Dichloromethane)	2009/10/28	NC		%	50
		Methyl Isobutyl Ketone	2009/10/28	NC		%	50
		Methyl Ethyl Ketone (2-Butanone)	2009/10/28	NC		%	50
		Methyl t-butyl ether (MTBE)	2009/10/28	NC		%	50
		Styrene	2009/10/28	NC		%	50
		1,1,1,2-Tetrachloroethane	2009/10/28	NC		%	50
		1,1,2,2-Tetrachloroethane	2009/10/28	NC		%	50
		Tetrachloroethylene	2009/10/28	NC		%	50
		Toluene	2009/10/28	NC		%	50
		1,1,1-Trichloroethane	2009/10/28	NC		%	50
		1,1,2-Trichloroethane	2009/10/28	NC		%	50
		Trichloroethylene	2009/10/28	NC		%	50
		Vinyl Chloride	2009/10/28	NC		%	50
		p+m-Xylene	2009/10/28	NC		%	50
		o-Xylene	2009/10/28	NC		%	50
		Xylene (Total)	2009/10/28	NC		%	50
1985274	NGN Matrix Spike [EC7589-01]	D10-Anthracene	2009/10/27		73	%	30 - 130
		D14-Terphenyl (FS)	2009/10/27		92	%	30 - 130
		D7-Quinoline	2009/10/27		61	%	30 - 130
		D8-Acenaphthylene	2009/10/27		57	%	30 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1985274 NGN	Matrix Spike [EC7589-01]	Acenaphthene	2009/10/27		67	%	30 - 130	
		Acenaphthylene	2009/10/27		63	%	30 - 130	
		Anthracene	2009/10/27		75	%	30 - 130	
		Benzo(a)anthracene	2009/10/27		87	%	30 - 130	
		Benzo(a)pyrene	2009/10/27		105	%	30 - 130	
		Benzo(b/j)fluoranthene	2009/10/27		79	%	30 - 130	
		Benzo(g,h,i)perylene	2009/10/27		88	%	30 - 130	
		Benzo(k)fluoranthene	2009/10/27		94	%	30 - 130	
		Chrysene	2009/10/27		89	%	30 - 130	
		Dibenz(a,h)anthracene	2009/10/27		97	%	30 - 130	
		Fluoranthene	2009/10/27		96	%	30 - 130	
		Fluorene	2009/10/27		78	%	30 - 130	
		Indeno(1,2,3-cd)pyrene	2009/10/27		98	%	30 - 130	
		1-Methylnaphthalene	2009/10/27		62	%	30 - 130	
		2-Methylnaphthalene	2009/10/27		60	%	30 - 130	
		Naphthalene	2009/10/27		43	%	30 - 130	
		Phenanthrene	2009/10/27		78	%	30 - 130	
		Pyrene	2009/10/27		97	%	30 - 130	
		Spiked Blank	D10-Anthracene	2009/10/27		72	%	30 - 130
			D14-Terphenyl (FS)	2009/10/27		89	%	30 - 130
			D7-Quinoline	2009/10/27		61	%	30 - 130
			D8-Acenaphthylene	2009/10/27		62	%	30 - 130
			Acenaphthene	2009/10/27		70	%	30 - 130
			Acenaphthylene	2009/10/27		66	%	30 - 130
			Anthracene	2009/10/27		74	%	30 - 130
			Benzo(a)anthracene	2009/10/27		87	%	30 - 130
			Benzo(a)pyrene	2009/10/27		105	%	30 - 130
			Benzo(b/j)fluoranthene	2009/10/27		78	%	30 - 130
			Benzo(g,h,i)perylene	2009/10/27		94	%	30 - 130
			Benzo(k)fluoranthene	2009/10/27		94	%	30 - 130
	Chrysene		2009/10/27		89	%	30 - 130	
	Dibenz(a,h)anthracene		2009/10/27		101	%	30 - 130	
	Fluoranthene		2009/10/27		94	%	30 - 130	
	Fluorene	2009/10/27		79	%	30 - 130		
	Indeno(1,2,3-cd)pyrene	2009/10/27		102	%	30 - 130		
	1-Methylnaphthalene	2009/10/27		71	%	30 - 130		
	2-Methylnaphthalene	2009/10/27		69	%	30 - 130		
	Naphthalene	2009/10/27		57	%	30 - 130		
	Phenanthrene	2009/10/27		78	%	30 - 130		
	Pyrene	2009/10/27		94	%	30 - 130		
	Method Blank	D10-Anthracene	2009/10/27		77	%	30 - 130	
		D14-Terphenyl (FS)	2009/10/27		93	%	30 - 130	
		D7-Quinoline	2009/10/27		63	%	30 - 130	
		D8-Acenaphthylene	2009/10/27		64	%	30 - 130	
		Acenaphthene	2009/10/27		ND, RDL=0.01		ug/g	
Acenaphthylene		2009/10/27		ND, RDL=0.005		ug/g		
Anthracene		2009/10/27		ND, RDL=0.005		ug/g		
Benzo(a)anthracene		2009/10/27		ND, RDL=0.01		ug/g		
Benzo(a)pyrene		2009/10/27		ND, RDL=0.005		ug/g		
Benzo(b/j)fluoranthene		2009/10/27		ND, RDL=0.01		ug/g		
Benzo(g,h,i)perylene		2009/10/27		ND, RDL=0.02		ug/g		
Benzo(k)fluoranthene		2009/10/27		ND, RDL=0.01		ug/g		
Chrysene		2009/10/27		ND, RDL=0.01		ug/g		
Dibenz(a,h)anthracene		2009/10/27		ND, RDL=0.02		ug/g		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
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Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1985274 NGN	Method Blank	Fluoranthene	2009/10/27	ND, RDL=0.005		ug/g		
		Fluorene	2009/10/27	ND, RDL=0.005		ug/g		
		Indeno(1,2,3-cd)pyrene	2009/10/27	ND, RDL=0.02		ug/g		
		1-Methylnaphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		2-Methylnaphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		Naphthalene	2009/10/27	ND, RDL=0.005		ug/g		
		Phenanthrene	2009/10/27	ND, RDL=0.005		ug/g		
		Pyrene	2009/10/27	ND, RDL=0.005		ug/g		
		RPD [EC7589-01]	Acenaphthene	2009/10/27	NC		%	50
			Acenaphthylene	2009/10/27	NC		%	50
			Anthracene	2009/10/27	NC		%	50
			Benzo(a)anthracene	2009/10/27	NC		%	50
			Benzo(a)pyrene	2009/10/27	NC		%	50
			Benzo(b/j)fluoranthene	2009/10/27	NC		%	50
			Benzo(g,h,i)perylene	2009/10/27	NC		%	50
			Benzo(k)fluoranthene	2009/10/27	NC		%	50
	Chrysene		2009/10/27	NC		%	50	
	Dibenz(a,h)anthracene		2009/10/27	NC		%	50	
	Fluoranthene		2009/10/27	NC		%	50	
	Fluorene		2009/10/27	NC		%	50	
	Indeno(1,2,3-cd)pyrene		2009/10/27	NC		%	50	
	1-Methylnaphthalene		2009/10/27	NC		%	50	
	2-Methylnaphthalene		2009/10/27	NC		%	50	
	Naphthalene		2009/10/27	NC		%	50	
	Phenanthrene	2009/10/27	NC		%	50		
	Pyrene	2009/10/27	NC		%	50		
	1985295 AC	RPD	Moisture	2009/10/27	1.1		%	50
	1985302 ICA	RPD	Moisture	2009/10/27	0.9		%	50
	1991219 ICA	RPD	Moisture	2009/10/27	4.2		%	50
	1991359 ZZ	Matrix Spike	o-Terphenyl	2009/10/27		81	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2009/10/27		75	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2009/10/27		75	%	60 - 130
F4 (C34-C50 Hydrocarbons)			2009/10/27		75	%	60 - 130	
Spiked Blank		o-Terphenyl	2009/10/27		75	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/27		71	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2009/10/27		71	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2009/10/27		71	%	60 - 130	
Method Blank		o-Terphenyl	2009/10/28		102	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F3 (C16-C34 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F4 (C34-C50 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
1991380 JJE		Matrix Spike	o-Terphenyl	2009/10/28		94	%	30 - 130
			F2 (C10-C16 Hydrocarbons)	2009/10/28		90	%	60 - 130
			F3 (C16-C34 Hydrocarbons)	2009/10/28		90	%	60 - 130
			F4 (C34-C50 Hydrocarbons)	2009/10/28		90	%	60 - 130
	Spiked Blank	o-Terphenyl	2009/10/28		89	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28		85	%	60 - 130	
		F3 (C16-C34 Hydrocarbons)	2009/10/28		85	%	60 - 130	
		F4 (C34-C50 Hydrocarbons)	2009/10/28		85	%	60 - 130	
	Method Blank	o-Terphenyl	2009/10/28		95	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F3 (C16-C34 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
		F4 (C34-C50 Hydrocarbons)	2009/10/28	ND, RDL=10		ug/g		
	RPD	F2 (C10-C16 Hydrocarbons)	2009/10/28	NC		%	50	
		F3 (C16-C34 Hydrocarbons)	2009/10/28	31.1		%	50	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
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Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1991380 JJE	RPD	F4 (C34-C50 Hydrocarbons)	2009/10/28	NC		%	50
1991473 DCA	Matrix Spike	1,4-Difluorobenzene	2009/10/28		104	%	60 - 140
		4-Bromofluorobenzene	2009/10/28		96	%	60 - 140
		D10-Ethylbenzene	2009/10/28		114	%	30 - 130
		D4-1,2-Dichloroethane	2009/10/28		101	%	60 - 140
		Benzene	2009/10/28		91	%	60 - 140
		Toluene	2009/10/28		96	%	60 - 140
		Ethylbenzene	2009/10/28		100	%	60 - 140
		o-Xylene	2009/10/28		105	%	60 - 140
		p+m-Xylene	2009/10/28		102	%	60 - 140
		F1 (C6-C10)	2009/10/28		107	%	60 - 140
	Spiked Blank	1,4-Difluorobenzene	2009/10/28		106	%	60 - 140
		4-Bromofluorobenzene	2009/10/28		100	%	60 - 140
		D10-Ethylbenzene	2009/10/28		110	%	30 - 130
		D4-1,2-Dichloroethane	2009/10/28		105	%	60 - 140
		Benzene	2009/10/28		87	%	60 - 140
		Toluene	2009/10/28		90	%	60 - 140
		Ethylbenzene	2009/10/28		93	%	60 - 140
		o-Xylene	2009/10/28		98	%	60 - 140
		p+m-Xylene	2009/10/28		93	%	60 - 140
		F1 (C6-C10)	2009/10/28		100	%	60 - 140
	Method Blank	1,4-Difluorobenzene	2009/10/28		101	%	60 - 140
		4-Bromofluorobenzene	2009/10/28		93	%	60 - 140
		D10-Ethylbenzene	2009/10/28		98	%	30 - 130
		D4-1,2-Dichloroethane	2009/10/28		98	%	60 - 140
		Benzene	2009/10/28	ND, RDL=0.02		ug/g	
		Toluene	2009/10/28	ND, RDL=0.02		ug/g	
		Ethylbenzene	2009/10/28	ND, RDL=0.02		ug/g	
		o-Xylene	2009/10/28	ND, RDL=0.02		ug/g	
		p+m-Xylene	2009/10/28	ND, RDL=0.04		ug/g	
		Total Xylenes	2009/10/28	ND, RDL=0.04		ug/g	
		F1 (C6-C10)	2009/10/28	ND, RDL=10		ug/g	
		F1 (C6-C10) - BTEX	2009/10/28	ND, RDL=10		ug/g	
	RPD	Benzene	2009/10/28	NC		%	50
		Toluene	2009/10/28	NC		%	50
		Ethylbenzene	2009/10/28	NC		%	50
		o-Xylene	2009/10/28	NC		%	50
		p+m-Xylene	2009/10/28	NC		%	50
		Total Xylenes	2009/10/28	NC		%	50
		F1 (C6-C10)	2009/10/28	NC		%	50
		F1 (C6-C10) - BTEX	2009/10/28	NC		%	50
1991474 LCH	QC Standard	Hot Water Ext. Boron (B)	2009/10/28		98	%	77 - 121
	Method Blank	Hot Water Ext. Boron (B)	2009/10/28	ND, RDL=0.01		ug/g	
	RPD	Hot Water Ext. Boron (B)	2009/10/28	NC		%	35
1991497 VIV	Matrix Spike [EC7579-01]	Acid Extractable Antimony (Sb)	2009/10/28		95	%	75 - 125
		Acid Extractable Arsenic (As)	2009/10/28		98	%	75 - 125
		Acid Extractable Barium (Ba)	2009/10/28		NC	%	75 - 125
		Acid Extractable Beryllium (Be)	2009/10/28		99	%	75 - 125
		Acid Extractable Cadmium (Cd)	2009/10/28		95	%	75 - 125
		Acid Extractable Chromium (Cr)	2009/10/28		90	%	75 - 125
		Acid Extractable Cobalt (Co)	2009/10/28		89	%	75 - 125
		Acid Extractable Copper (Cu)	2009/10/28		85	%	75 - 125
		Acid Extractable Lead (Pb)	2009/10/28		92	%	75 - 125
		Acid Extractable Molybdenum (Mo)	2009/10/28		94	%	75 - 125

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E2060

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1991497 VIV	Matrix Spike [EC7579-01]	Acid Extractable Nickel (Ni)	2009/10/28		88	%	75 - 125	
		Acid Extractable Selenium (Se)	2009/10/28		96	%	75 - 125	
		Acid Extractable Silver (Ag)	2009/10/28		93	%	75 - 125	
		Acid Extractable Thallium (Tl)	2009/10/28		90	%	75 - 125	
		Acid Extractable Vanadium (V)	2009/10/28		95	%	75 - 125	
	QC Standard	Acid Extractable Zinc (Zn)	2009/10/28		91	%	75 - 125	
		Acid Extractable Mercury (Hg)	2009/10/28		99	%	75 - 125	
		Acid Extractable Antimony (Sb)	2009/10/28		99	%	75 - 125	
		Acid Extractable Arsenic (As)	2009/10/28		104	%	75 - 125	
		Acid Extractable Barium (Ba)	2009/10/28		100	%	75 - 125	
		Acid Extractable Beryllium (Be)	2009/10/28		108	%	75 - 125	
		Acid Extractable Cadmium (Cd)	2009/10/28		98	%	75 - 125	
		Acid Extractable Chromium (Cr)	2009/10/28		97	%	75 - 125	
		Acid Extractable Cobalt (Co)	2009/10/28		99	%	75 - 125	
		Acid Extractable Copper (Cu)	2009/10/28		100	%	75 - 125	
		Acid Extractable Lead (Pb)	2009/10/28		100	%	75 - 125	
		Acid Extractable Molybdenum (Mo)	2009/10/28		98	%	75 - 125	
		Acid Extractable Nickel (Ni)	2009/10/28		98	%	75 - 125	
		Acid Extractable Selenium (Se)	2009/10/28		105	%	75 - 125	
		Acid Extractable Silver (Ag)	2009/10/28		99	%	75 - 125	
	Method Blank	Acid Extractable Thallium (Tl)	2009/10/28		98	%	75 - 125	
		Acid Extractable Vanadium (V)	2009/10/28		100	%	75 - 125	
		Acid Extractable Zinc (Zn)	2009/10/28		102	%	75 - 125	
		Acid Extractable Mercury (Hg)	2009/10/28		113	%	75 - 125	
		Acid Extractable Antimony (Sb)	2009/10/28	ND, RDL=0.2			ug/g	
		Acid Extractable Arsenic (As)	2009/10/28	ND, RDL=1			ug/g	
		Acid Extractable Barium (Ba)	2009/10/28	ND, RDL=0.5			ug/g	
		Acid Extractable Beryllium (Be)	2009/10/28	ND, RDL=0.2			ug/g	
		Acid Extractable Cadmium (Cd)	2009/10/28	ND, RDL=0.1			ug/g	
		Acid Extractable Chromium (Cr)	2009/10/28	ND, RDL=1			ug/g	
		Acid Extractable Cobalt (Co)	2009/10/28	ND, RDL=0.1			ug/g	
		Acid Extractable Copper (Cu)	2009/10/28	ND, RDL=0.5			ug/g	
		Acid Extractable Lead (Pb)	2009/10/28	ND, RDL=1			ug/g	
		Acid Extractable Molybdenum (Mo)	2009/10/28	ND, RDL=0.5			ug/g	
		Acid Extractable Nickel (Ni)	2009/10/28	ND, RDL=0.5			ug/g	
	RPD [EC7579-01]	Acid Extractable Selenium (Se)	2009/10/28		ND, RDL=0.5		ug/g	
		Acid Extractable Silver (Ag)	2009/10/28		ND, RDL=0.2		ug/g	
		Acid Extractable Thallium (Tl)	2009/10/28		ND, RDL=0.05		ug/g	
		Acid Extractable Vanadium (V)	2009/10/28		ND, RDL=5		ug/g	
		Acid Extractable Zinc (Zn)	2009/10/28		ND, RDL=5		ug/g	
		Acid Extractable Mercury (Hg)	2009/10/28		ND, RDL=0.05		ug/g	
		Acid Extractable Antimony (Sb)	2009/10/28		NC		%	35
		Acid Extractable Arsenic (As)	2009/10/28		NC		%	35
		Acid Extractable Barium (Ba)	2009/10/28		0.08		%	35
		Acid Extractable Beryllium (Be)	2009/10/28		NC		%	35
Acid Extractable Cadmium (Cd)		2009/10/28		NC		%	35	
Acid Extractable Chromium (Cr)		2009/10/28		0.4		%	35	
Acid Extractable Cobalt (Co)		2009/10/28		4.7		%	35	
Acid Extractable Copper (Cu)		2009/10/28		15.5		%	35	
Acid Extractable Lead (Pb)		2009/10/28		NC		%	35	
Acid Extractable Molybdenum (Mo)	2009/10/28		NC		%	35		
Acid Extractable Nickel (Ni)	2009/10/28		6.9		%	35		
Acid Extractable Selenium (Se)	2009/10/28		NC		%	35		
Acid Extractable Silver (Ag)	2009/10/28		NC		%	35		

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Quality Assurance Report (Continued)

Maxxam Job Number: MA9E2060

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1991497 VIV	RPD [EC7579-01]	Acid Extractable Thallium (Tl)	2009/10/28	NC		%	35
		Acid Extractable Vanadium (V)	2009/10/28	NC		%	35
		Acid Extractable Zinc (Zn)	2009/10/28	NC		%	35
		Acid Extractable Mercury (Hg)	2009/10/28	NC		%	35
1992223 VRO	Matrix Spike	Chromium (VI)	2009/10/28		29 (2)	%	75 - 125
	QC Standard	Chromium (VI)	2009/10/28		94	%	85 - 115
	Spiked Blank	Chromium (VI)	2009/10/28		103	%	75 - 125
	Method Blank	Chromium (VI)	2009/10/28	ND, RDL=0.2		ug/g	
	RPD	Chromium (VI)	2009/10/28	NC		%	35
1992745 AHA	QC Standard	Conductivity	2009/10/28		103	%	75 - 125
	Method Blank	Conductivity	2009/10/28	ND, RDL=0.002		mS/cm	
	RPD	Conductivity	2009/10/28	1.5		%	35
1992770 AC	RPD	Moisture	2009/10/28	0.8		%	50
1992838 AHA	QC Standard	Conductivity	2009/10/28		105	%	75 - 125
	Method Blank	Conductivity	2009/10/28	ND, RDL=0.002		mS/cm	
	RPD [EC7581-01]	Conductivity	2009/10/28	1.6		%	35
1992931 LHA	Matrix Spike [EC7583-01]	Free Cyanide	2009/10/28		91	%	80 - 120
	Spiked Blank	Free Cyanide	2009/10/28		105	%	90 - 110
	Method Blank	Free Cyanide	2009/10/28	ND, RDL=0.01		ug/g	
	RPD [EC7583-01]	Free Cyanide	2009/10/28	NC		%	35
1993052 LCH	QC Standard	Hot Water Ext. Boron (B)	2009/10/28		95	%	77 - 121
	Method Blank	Hot Water Ext. Boron (B)	2009/10/28	ND, RDL=0.01		ug/g	
1994785 RUS	Matrix Spike	F4G-sg (Grav. Heavy Hydrocarbons)	2009/10/29		85	%	65 - 135
	Spiked Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2009/10/29		89	%	65 - 135
	Method Blank	F4G-sg (Grav. Heavy Hydrocarbons)	2009/10/29	ND, RDL=100		ug/g	
	RPD	F4G-sg (Grav. Heavy Hydrocarbons)	2009/10/29	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.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 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.
 (1) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.
 (2) The recovery was below the lower control limit. This may be due in part to the reducing environment of the sample.

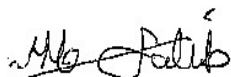
Validation Signature Page

Maxxam Job #: A9E2060

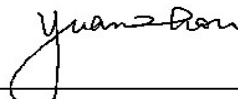
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).





EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist



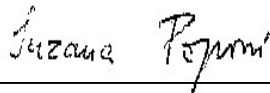
MAMDOUH SALIB, Analyst, Hydrocarbons



YUAN ZHOU, gc/ms Technician



BRAD NEWMAN, Scientific Specialist



SUZANA POPOVIC, Supervisor, Hydrocarbons

Validation Signature Page

Maxxam Job #: A9E2060

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



CRISTINA CARRIERE, Scientific Services

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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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 111853
 Site: TTC SHEPPARD
 Your C.O.C. #: 16775001, 167750-0

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/11/03

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E3687

Received: 2009/10/26, 19:00

Sample Matrix: Water
 # Samples Received: 10

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Chloride by Automated Colourimetry	8	N/A	2009/11/03	CAM SOP-00463	SM 4500 Cl E
Chromium (VI) in Water	8	N/A	2009/11/02	BRL SOP-00106	EPA 7199
Free Cyanide	8	N/A	2009/10/30	CAM SOP-00457	SM4500-CN-I Modified
Petroleum Hydro. CCME F1 & BTEX in Water	7	N/A	2009/11/01	CAM SOP-00315	CCME CWS
Petroleum Hydro. CCME F1 & BTEX in Water	1	N/A	2009/11/02	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Water	8	2009/11/02	2009/11/03	CAM SOP-00316	CCME Hydrocarbons
Mercury	8	2009/10/28	2009/10/29	CAM SOP-00453	EPA 7470
Dissolved Metals by ICPMS	8	N/A	2009/11/03	CAM SOP-00447	EPA 6020
Nitrate (NO3) and Nitrite (NO2) in Water Ø	1	N/A	2009/10/31	CAM SOP-00440	SM 4500 NO3/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water Ø	7	N/A	2009/11/02	CAM SOP-00440	SM 4500 NO3/NO2B
PAH Compounds in Water by GC/MS (SIM)	8	2009/10/28	2009/10/29	CAM SOP-00318	EPA 8270
Volatile Organic Compounds in Water	5	N/A	2009/10/30	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Water	5	N/A	2009/10/31	CAM SOP-00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Your Project #: 111853
Site: TTC SHEPPARD
Your C.O.C. #: 16775001, 167750-0

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2009/11/03

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

=====
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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 35

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ED5998	ED5998	ED5999		
Sampling Date		2009/10/26 04:30	2009/10/26 04:30	2009/10/26 05:45		
COC Number		167750-0	167750-0	167750-0		
	Units	MW1	MW1 Lab-Dup	MW2	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L	ND	ND	ND	0.2	1996590
Toluene	ug/L	0.2	0.3	0.3	0.2	1996590
Ethylbenzene	ug/L	ND	ND	ND	0.2	1996590
o-Xylene	ug/L	ND	ND	ND	0.2	1996590
p+m-Xylene	ug/L	ND	ND	ND	0.4	1996590
Total Xylenes	ug/L	ND	ND	ND	0.4	1996590
F1 (C6-C10)	ug/L	ND	ND	ND	100	1996590
F1 (C6-C10) - BTEX	ug/L	ND	ND	ND	100	1996590
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	ND		ND	100	1996899
F3 (C16-C34 Hydrocarbons)	ug/L	ND		ND	100	1996899
F4 (C34-C50 Hydrocarbons)	ug/L	ND		ND	100	1996899
Reached Baseline at C50	ug/L	Yes		Yes		1996899
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	106	105		1996590
4-Bromofluorobenzene	%	99	98	96		1996590
D10-Ethylbenzene	%	100	103	101		1996590
D4-1,2-Dichloroethane	%	102	106	108		1996590
o-Terphenyl	%	116		111		1996899

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ED6000	ED6001	ED6002		
Sampling Date		2009/10/26 03:30	2009/10/26 11:30	2009/10/26 10:00		
COC Number		167750-0	167750-0	167750-0		
	Units	MW3	MW4	MW5	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L	ND	0.4	ND	0.2	1996590
Toluene	ug/L	ND	0.8	0.4	0.2	1996590
Ethylbenzene	ug/L	ND	ND	ND	0.2	1996590
o-Xylene	ug/L	ND	ND	ND	0.2	1996590
p+m-Xylene	ug/L	ND	ND	ND	0.4	1996590
Total Xylenes	ug/L	ND	ND	ND	0.4	1996590
F1 (C6-C10)	ug/L	ND	ND	ND	100	1996590
F1 (C6-C10) - BTEX	ug/L	ND	ND	ND	100	1996590
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
Reached Baseline at C50	ug/L	Yes	Yes	Yes		1996899
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	105	102	100		1996590
4-Bromofluorobenzene	%	100	98	96		1996590
D10-Ethylbenzene	%	106	95	97		1996590
D4-1,2-Dichloroethane	%	105	106	104		1996590
o-Terphenyl	%	108	112	109		1996899

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

OREG 153 PETROLEUM HYDROCARBONS (WATER)

Maxxam ID		ED6003	ED6004	ED6005		
Sampling Date		2009/10/26 02:30	2009/10/26 01:00	2009/10/26 04:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW6	MW7	MW8	RDL	QC Batch

BTEX & F1 Hydrocarbons						
Benzene	ug/L	ND	ND	ND	0.2	1996590
Toluene	ug/L	0.3	0.2	0.3	0.2	1996590
Ethylbenzene	ug/L	ND	ND	ND	0.2	1996590
o-Xylene	ug/L	ND	ND	ND	0.2	1996590
p+m-Xylene	ug/L	ND	ND	ND	0.4	1996590
Total Xylenes	ug/L	ND	ND	ND	0.4	1996590
F1 (C6-C10)	ug/L	ND	ND	ND	100	1996590
F1 (C6-C10) - BTEX	ug/L	ND	ND	ND	100	1996590
F2-F4 Hydrocarbons						
F2 (C10-C16 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
F3 (C16-C34 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
F4 (C34-C50 Hydrocarbons)	ug/L	ND	ND	ND	100	1996899
Reached Baseline at C50	ug/L	Yes	Yes	Yes		1996899
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	104	103	105		1996590
4-Bromofluorobenzene	%	99	100	99		1996590
D10-Ethylbenzene	%	100	99	102		1996590
D4-1,2-Dichloroethane	%	105	108	107		1996590
o-Terphenyl	%	110	107	113		1996899

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 METALS & INORGANICS (WATER)

Maxxam ID		ED5998			ED5999		
Sampling Date		2009/10/26 04:30			2009/10/26 05:45		
COC Number		167750-0			167750-0		
	Units	MW1	RDL	QC Batch	MW2	RDL	QC Batch

Inorganics							
Free Cyanide	ug/L	ND	2	1995222	ND	2	1995222
Dissolved Chloride (Cl)	mg/L	470	5	1996827	190	2	1996827
Nitrite (N)	mg/L	ND	0.01	1996825	0.08	0.01	1996824
Nitrate (N)	mg/L	ND	0.1	1996825	ND	0.1	1996824
Nitrate + Nitrite	mg/L	ND	0.1	1996825	0.1	0.1	1996824
Metals							
Chromium (VI)	ug/L	ND	5	1996873	ND	5	1996873
Mercury (Hg)	ug/L	ND	0.1	1993415	ND	0.1	1993415
Dissolved Antimony (Sb)	ug/L	0.7	0.5	1997765	0.5	0.5	1998295
Dissolved Arsenic (As)	ug/L	2	1	1997765	ND	1	1998295
Dissolved Barium (Ba)	ug/L	380	5	1997765	74	5	1998295
Dissolved Beryllium (Be)	ug/L	ND	0.5	1997765	ND	0.5	1998295
Dissolved Boron (B)	ug/L	55	10	1997765	130	10	1998295
Dissolved Cadmium (Cd)	ug/L	ND	0.1	1997765	ND	0.1	1998295
Dissolved Chromium (Cr)	ug/L	ND	5	1997765	ND	5	1998295
Dissolved Cobalt (Co)	ug/L	ND	0.5	1997765	0.9	0.5	1998295
Dissolved Copper (Cu)	ug/L	2	1	1997765	4	1	1998295
Dissolved Lead (Pb)	ug/L	ND	0.5	1997765	ND	0.5	1998295
Dissolved Molybdenum (Mo)	ug/L	7	1	1997765	16	1	1998295
Dissolved Nickel (Ni)	ug/L	2	1	1997765	2	1	1998295
Dissolved Selenium (Se)	ug/L	ND	2	1997765	ND	2	1998295
Dissolved Silver (Ag)	ug/L	ND	0.1	1997765	ND	0.1	1998295
Dissolved Sodium (Na)	ug/L	250000	100	1997765	99000	100	1998295
Dissolved Thallium (Tl)	ug/L	ND	0.05	1997765	0.07	0.05	1998295
Dissolved Vanadium (V)	ug/L	1	1	1997765	ND	1	1998295
Dissolved Zinc (Zn)	ug/L	ND	5	1997765	19	5	1998295
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 METALS & INORGANICS (WATER)

Maxxam ID		ED5999			ED6000		
Sampling Date		2009/10/26 05:45			2009/10/26 03:30		
COC Number		167750-0			167750-0		
	Units	MW2 Lab-Dup	RDL	QC Batch	MW3	RDL	QC Batch

Inorganics							
Free Cyanide	ug/L		2	1995222	ND	2	1995222
Dissolved Chloride (Cl)	mg/L		2	1996827	1100	30	1996502
Nitrite (N)	mg/L		0.01	1996824	ND	0.01	1996524
Nitrate (N)	mg/L		0.1	1996824	ND	0.1	1996524
Nitrate + Nitrite	mg/L		0.1	1996824	ND	0.1	1996524
Metals							
Chromium (VI)	ug/L	ND	5	1996873	ND	5	1996873
Mercury (Hg)	ug/L		0.1	1993415	ND	0.1	1993415
Dissolved Antimony (Sb)	ug/L		0.5	1998295	ND	0.5	1998295
Dissolved Arsenic (As)	ug/L		1	1998295	ND (1)	5	1998295
Dissolved Barium (Ba)	ug/L		5	1998295	440	5	1998295
Dissolved Beryllium (Be)	ug/L		0.5	1998295	ND	0.5	1998295
Dissolved Boron (B)	ug/L		10	1998295	120	10	1998295
Dissolved Cadmium (Cd)	ug/L		0.1	1998295	ND	0.1	1998295
Dissolved Chromium (Cr)	ug/L		5	1998295	ND	5	1998295
Dissolved Cobalt (Co)	ug/L		0.5	1998295	ND	0.5	1998295
Dissolved Copper (Cu)	ug/L		1	1998295	ND	1	1998295
Dissolved Lead (Pb)	ug/L		0.5	1998295	ND	0.5	1998295
Dissolved Molybdenum (Mo)	ug/L		1	1998295	5	1	1998295
Dissolved Nickel (Ni)	ug/L		1	1998295	2	1	1998295
Dissolved Selenium (Se)	ug/L		2	1998295	ND	2	1998295
Dissolved Silver (Ag)	ug/L		0.1	1998295	ND	0.1	1998295
Dissolved Sodium (Na)	ug/L		100	1998295	330000	100	1998295
Dissolved Thallium (Tl)	ug/L		0.05	1998295	ND	0.05	1998295
Dissolved Vanadium (V)	ug/L		1	1998295	ND (1)	5	1998295
Dissolved Zinc (Zn)	ug/L		5	1998295	ND	5	1998295

ND = Not detected
 RDL = Reportable Detection Limit
 Lab-Dup = Laboratory Initiated Duplicate
 QC Batch = Quality Control Batch
 (1) Detection Limit was raised due to matrix interferences.

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 METALS & INORGANICS (WATER)

Maxxam ID		ED6001		ED6002		
Sampling Date		2009/10/26 11:30		2009/10/26 10:00		
COC Number		167750-0		167750-0		
	Units	MW4	QC Batch	MW5	RDL	QC Batch

Inorganics						
Free Cyanide	ug/L	ND	1995222	ND	2	1995222
Dissolved Chloride (Cl)	mg/L	25	1996827	5	1	1996827
Nitrite (N)	mg/L	ND	1996824	ND	0.01	1996824
Nitrate (N)	mg/L	ND	1996824	ND	0.1	1996824
Nitrate + Nitrite	mg/L	ND	1996824	ND	0.1	1996824
Metals						
Chromium (VI)	ug/L	ND	1996873	ND	5	1996873
Mercury (Hg)	ug/L	ND	1993415	ND	0.1	1993415
Dissolved Antimony (Sb)	ug/L	ND	1997765	ND	0.5	1998295
Dissolved Arsenic (As)	ug/L	2	1997765	2	1	1998295
Dissolved Barium (Ba)	ug/L	160	1997765	26	5	1998295
Dissolved Beryllium (Be)	ug/L	ND	1997765	ND	0.5	1998295
Dissolved Boron (B)	ug/L	71	1997765	120	10	1998295
Dissolved Cadmium (Cd)	ug/L	ND	1997765	ND	0.1	1998295
Dissolved Chromium (Cr)	ug/L	ND	1997765	ND	5	1998295
Dissolved Cobalt (Co)	ug/L	1.1	1997765	ND	0.5	1998295
Dissolved Copper (Cu)	ug/L	ND	1997765	ND	1	1998295
Dissolved Lead (Pb)	ug/L	ND	1997765	ND	0.5	1998295
Dissolved Molybdenum (Mo)	ug/L	16	1997765	12	1	1998295
Dissolved Nickel (Ni)	ug/L	19	1997765	ND	1	1998295
Dissolved Selenium (Se)	ug/L	ND	1997765	ND	2	1998295
Dissolved Silver (Ag)	ug/L	0.1	1997765	ND	0.1	1998295
Dissolved Sodium (Na)	ug/L	23000	1997765	41000	100	1998295
Dissolved Thallium (Tl)	ug/L	ND	1997765	ND	0.05	1998295
Dissolved Vanadium (V)	ug/L	ND	1997765	1	1	1998295
Dissolved Zinc (Zn)	ug/L	ND	1997765	ND	5	1998295

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 METALS & INORGANICS (WATER)

Maxxam ID		ED6003		ED6004		
Sampling Date		2009/10/26 02:30		2009/10/26 01:00		
COC Number		167750-0		167750-0		
	Units	MW6	RDL	MW7	RDL	QC Batch

Inorganics						
Free Cyanide	ug/L	ND	2	ND	2	1995222
Dissolved Chloride (Cl)	mg/L	6	1	1400	20	1996827
Nitrite (N)	mg/L	ND	0.01	ND	0.01	1996824
Nitrate (N)	mg/L	ND	0.1	ND	0.1	1996824
Nitrate + Nitrite	mg/L	ND	0.1	ND	0.1	1996824
Metals						
Chromium (VI)	ug/L	ND	5	ND	5	1996873
Mercury (Hg)	ug/L	ND	0.1	ND	0.1	1993415
Dissolved Antimony (Sb)	ug/L	ND	0.5	0.6	0.5	1998295
Dissolved Arsenic (As)	ug/L	1	1	ND (1)	5	1998295
Dissolved Barium (Ba)	ug/L	47	5	550	5	1998295
Dissolved Beryllium (Be)	ug/L	ND	0.5	ND	0.5	1998295
Dissolved Boron (B)	ug/L	93	10	57	10	1998295
Dissolved Cadmium (Cd)	ug/L	ND	0.1	ND	0.1	1998295
Dissolved Chromium (Cr)	ug/L	ND	5	ND	5	1998295
Dissolved Cobalt (Co)	ug/L	ND	0.5	2.5	0.5	1998295
Dissolved Copper (Cu)	ug/L	ND	1	ND	1	1998295
Dissolved Lead (Pb)	ug/L	ND	0.5	ND	0.5	1998295
Dissolved Molybdenum (Mo)	ug/L	9	1	12	1	1998295
Dissolved Nickel (Ni)	ug/L	2	1	6 (1)	5	1998295
Dissolved Selenium (Se)	ug/L	ND	2	ND	2	1998295
Dissolved Silver (Ag)	ug/L	ND	0.1	ND	0.1	1998295
Dissolved Sodium (Na)	ug/L	23000	100	430000	1000	1998295
Dissolved Thallium (Tl)	ug/L	ND	0.05	0.07	0.05	1998295
Dissolved Vanadium (V)	ug/L	ND	1	ND (1)	5	1998295
Dissolved Zinc (Zn)	ug/L	8	5	ND	5	1998295

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Detection Limit was raised due to matrix interferences.

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 METALS & INORGANICS (WATER)

Maxxam ID		ED6005		
Sampling Date		2009/10/26 04:30		
COC Number		167750-0		
	Units	MW8	RDL	QC Batch

Inorganics				
Free Cyanide	ug/L	ND	2	1995222
Dissolved Chloride (Cl)	mg/L	480	5	1996827
Nitrite (N)	mg/L	ND	0.01	1996824
Nitrate (N)	mg/L	ND	0.1	1996824
Nitrate + Nitrite	mg/L	ND	0.1	1996824
Metals				
Chromium (VI)	ug/L	ND	5	1996873
Mercury (Hg)	ug/L	ND	0.1	1993415
Dissolved Antimony (Sb)	ug/L	ND	0.5	1997765
Dissolved Arsenic (As)	ug/L	2	1	1997765
Dissolved Barium (Ba)	ug/L	380	5	1997765
Dissolved Beryllium (Be)	ug/L	ND	0.5	1997765
Dissolved Boron (B)	ug/L	52	10	1997765
Dissolved Cadmium (Cd)	ug/L	ND	0.1	1997765
Dissolved Chromium (Cr)	ug/L	ND	5	1997765
Dissolved Cobalt (Co)	ug/L	ND	0.5	1997765
Dissolved Copper (Cu)	ug/L	4	1	1997765
Dissolved Lead (Pb)	ug/L	ND	0.5	1997765
Dissolved Molybdenum (Mo)	ug/L	7	1	1997765
Dissolved Nickel (Ni)	ug/L	2	1	1997765
Dissolved Selenium (Se)	ug/L	ND	2	1997765
Dissolved Silver (Ag)	ug/L	ND	0.1	1997765
Dissolved Sodium (Na)	ug/L	250000	100	1997765
Dissolved Thallium (Tl)	ug/L	ND	0.05	1997765
Dissolved Vanadium (V)	ug/L	2	1	1997765
Dissolved Zinc (Zn)	ug/L	8	5	1997765

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID		ED5998	ED5999	ED6000		
Sampling Date		2009/10/26	2009/10/26	2009/10/26		
		04:30	05:45	03:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW1	MW2	MW3	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/L	ND	ND	ND	0.05	1991476
Acenaphthylene	ug/L	ND	ND	ND	0.05	1991476
Anthracene	ug/L	ND	ND	ND	0.05	1991476
Benzo(a)anthracene	ug/L	ND	ND	ND	0.05	1991476
Benzo(a)pyrene	ug/L	ND	ND	ND	0.01	1991476
Benzo(b/j)fluoranthene	ug/L	ND	ND	ND	0.05	1991476
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	0.1	1991476
Benzo(k)fluoranthene	ug/L	ND	ND	ND	0.05	1991476
Chrysene	ug/L	ND	ND	ND	0.05	1991476
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	0.1	1991476
Fluoranthene	ug/L	ND	ND	ND	0.05	1991476
Fluorene	ug/L	ND	0.09	ND	0.05	1991476
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	0.1	1991476
1-Methylnaphthalene	ug/L	ND	ND	ND	0.05	1991476
2-Methylnaphthalene	ug/L	ND	ND	ND	0.05	1991476
Naphthalene	ug/L	ND	ND	ND	0.05	1991476
Phenanthrene	ug/L	0.07	0.25	0.14	0.05	1991476
Pyrene	ug/L	ND	ND	ND	0.05	1991476
Surrogate Recovery (%)						
D10-Anthracene	%	98	103	104		1991476
D14-Terphenyl (FS)	%	82	100	98		1991476
D7-Quinoline	%	95	87	102		1991476
D8-Acenaphthylene	%	88	94	87		1991476

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID		ED6001	ED6002	ED6003		
Sampling Date		2009/10/26 11:30	2009/10/26 10:00	2009/10/26 02:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW4	MW5	MW6	RDL	QC Batch

Polyaromatic Hydrocarbons						
Acenaphthene	ug/L	ND	ND	ND	0.05	1991476
Acenaphthylene	ug/L	ND	ND	ND	0.05	1991476
Anthracene	ug/L	ND	ND	ND	0.05	1991476
Benzo(a)anthracene	ug/L	ND	ND	ND	0.05	1991476
Benzo(a)pyrene	ug/L	ND	ND	ND	0.01	1991476
Benzo(b/j)fluoranthene	ug/L	ND	ND	ND	0.05	1991476
Benzo(g,h,i)perylene	ug/L	ND	ND	ND	0.1	1991476
Benzo(k)fluoranthene	ug/L	ND	ND	ND	0.05	1991476
Chrysene	ug/L	ND	ND	ND	0.05	1991476
Dibenz(a,h)anthracene	ug/L	ND	ND	ND	0.1	1991476
Fluoranthene	ug/L	ND	ND	0.06	0.05	1991476
Fluorene	ug/L	ND	0.11	ND	0.05	1991476
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	ND	0.1	1991476
1-Methylnaphthalene	ug/L	ND	0.06	ND	0.05	1991476
2-Methylnaphthalene	ug/L	0.05	0.07	ND	0.05	1991476
Naphthalene	ug/L	0.07	0.05	0.06	0.05	1991476
Phenanthrene	ug/L	0.16	0.78	0.07	0.05	1991476
Pyrene	ug/L	ND	ND	ND	0.05	1991476
Surrogate Recovery (%)						
D10-Anthracene	%	102	101	101		1991476
D14-Terphenyl (FS)	%	98	99	98		1991476
D7-Quinoline	%	88	88	106		1991476
D8-Acenaphthylene	%	91	94	91		1991476

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 POLYAROMATIC HYDROCARBONS (WATER)

Maxxam ID		ED6004	ED6005		
Sampling Date		2009/10/26 01:00	2009/10/26 04:30		
COC Number		167750-0	167750-0		
	Units	MW7	MW8	RDL	QC Batch

Polyaromatic Hydrocarbons					
Acenaphthene	ug/L	ND	ND	0.05	1991476
Acenaphthylene	ug/L	ND	ND	0.05	1991476
Anthracene	ug/L	ND	ND	0.05	1991476
Benzo(a)anthracene	ug/L	ND	ND	0.05	1991476
Benzo(a)pyrene	ug/L	ND	ND	0.01	1991476
Benzo(b/j)fluoranthene	ug/L	ND	ND	0.05	1991476
Benzo(g,h,i)perylene	ug/L	ND	ND	0.1	1991476
Benzo(k)fluoranthene	ug/L	ND	ND	0.05	1991476
Chrysene	ug/L	ND	ND	0.05	1991476
Dibenz(a,h)anthracene	ug/L	ND	ND	0.1	1991476
Fluoranthene	ug/L	ND	ND	0.05	1991476
Fluorene	ug/L	ND	ND	0.05	1991476
Indeno(1,2,3-cd)pyrene	ug/L	ND	ND	0.1	1991476
1-Methylnaphthalene	ug/L	ND	ND	0.05	1991476
2-Methylnaphthalene	ug/L	ND	ND	0.05	1991476
Naphthalene	ug/L	ND	ND	0.05	1991476
Phenanthrene	ug/L	ND	0.09	0.05	1991476
Pyrene	ug/L	ND	ND	0.05	1991476
Surrogate Recovery (%)					
D10-Anthracene	%	103	105		1991476
D14-Terphenyl (FS)	%	106	110		1991476
D7-Quinoline	%	86	103		1991476
D8-Acenaphthylene	%	87	89		1991476

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED5998	ED5999	ED6000		
Sampling Date		2009/10/26 04:30	2009/10/26 05:45	2009/10/26 03:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW1	MW2	MW3	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/L	11	17	ND	10	1992214
Benzene	ug/L	0.1	0.1	ND	0.1	1992214
Bromodichloromethane	ug/L	ND	ND	ND	0.1	1992214
Bromoform	ug/L	ND	ND	ND	0.2	1992214
Bromomethane	ug/L	ND	ND	ND	0.5	1992214
Carbon Tetrachloride	ug/L	ND	ND	ND	0.1	1992214
Chlorobenzene	ug/L	ND	ND	ND	0.1	1992214
Chloroform	ug/L	ND	ND	ND	0.1	1992214
Dibromochloromethane	ug/L	ND	ND	ND	0.2	1992214
1,2-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1992214
1,3-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1992214
1,4-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1992214
1,1-Dichloroethane	ug/L	ND	ND	ND	0.1	1992214
1,2-Dichloroethane	ug/L	ND	ND	ND	0.2	1992214
1,1-Dichloroethylene	ug/L	ND	ND	ND	0.1	1992214
cis-1,2-Dichloroethylene	ug/L	ND	ND	ND	0.1	1992214
trans-1,2-Dichloroethylene	ug/L	ND	ND	ND	0.1	1992214
1,2-Dichloropropane	ug/L	ND	ND	ND	0.1	1992214
cis-1,3-Dichloropropene	ug/L	ND	ND	ND	0.2	1992214
trans-1,3-Dichloropropene	ug/L	ND	ND	ND	0.2	1992214
Ethylbenzene	ug/L	ND	ND	ND	0.1	1992214
Ethylene Dibromide	ug/L	ND	ND	ND	0.2	1992214
Methylene Chloride(Dichloromethane)	ug/L	ND	ND	ND	0.5	1992214
Methyl Isobutyl Ketone	ug/L	ND	ND	ND	5	1992214
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	ND	ND	5	1992214
Methyl t-butyl ether (MTBE)	ug/L	ND	ND	ND	0.2	1992214
Styrene	ug/L	ND	ND	ND	0.2	1992214
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	ND	0.1	1992214
1,1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	0.2	1992214
Tetrachloroethylene	ug/L	ND	ND	ND	0.1	1992214
Toluene	ug/L	0.3	0.3	0.2	0.2	1992214

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED5998	ED5999	ED6000		
Sampling Date		2009/10/26 04:30	2009/10/26 05:45	2009/10/26 03:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW1	MW2	MW3	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	ND	ND	ND	0.1	1992214
1,1,2-Trichloroethane	ug/L	ND	ND	ND	0.2	1992214
Trichloroethylene	ug/L	ND	ND	ND	0.1	1992214
Vinyl Chloride	ug/L	ND	ND	ND	0.2	1992214
p+m-Xylene	ug/L	0.2	0.2	0.1	0.1	1992214
o-Xylene	ug/L	ND	ND	ND	0.1	1992214
Xylene (Total)	ug/L	0.2	0.2	0.1	0.1	1992214
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	100	100	99		1992214
D4-1,2-Dichloroethane	%	117	117	118		1992214
D8-Toluene	%	98	98	99		1992214
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6001		ED6002		
Sampling Date		2009/10/26 11:30		2009/10/26 10:00		
COC Number		167750-0		167750-0		
	Units	MW4	QC Batch	MW5	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/L	11	1992214	ND	10	1993232
Benzene	ug/L	0.5	1992214	0.2	0.1	1993232
Bromodichloromethane	ug/L	ND	1992214	ND	0.1	1993232
Bromoform	ug/L	ND	1992214	ND	0.2	1993232
Bromomethane	ug/L	ND	1992214	ND	0.5	1993232
Carbon Tetrachloride	ug/L	ND	1992214	ND	0.1	1993232
Chlorobenzene	ug/L	ND	1992214	ND	0.1	1993232
Chloroform	ug/L	ND	1992214	ND	0.1	1993232
Dibromochloromethane	ug/L	ND	1992214	ND	0.2	1993232
1,2-Dichlorobenzene	ug/L	ND	1992214	ND	0.2	1993232
1,3-Dichlorobenzene	ug/L	ND	1992214	ND	0.2	1993232
1,4-Dichlorobenzene	ug/L	ND	1992214	ND	0.2	1993232
1,1-Dichloroethane	ug/L	ND	1992214	ND	0.1	1993232
1,2-Dichloroethane	ug/L	ND	1992214	ND	0.2	1993232
1,1-Dichloroethylene	ug/L	ND	1992214	ND	0.1	1993232
cis-1,2-Dichloroethylene	ug/L	ND	1992214	ND	0.1	1993232
trans-1,2-Dichloroethylene	ug/L	ND	1992214	ND	0.1	1993232
1,2-Dichloropropane	ug/L	ND	1992214	ND	0.1	1993232
cis-1,3-Dichloropropene	ug/L	ND	1992214	ND	0.2	1993232
trans-1,3-Dichloropropene	ug/L	ND	1992214	ND	0.2	1993232
Ethylbenzene	ug/L	0.1	1992214	ND	0.1	1993232
Ethylene Dibromide	ug/L	ND	1992214	ND	0.2	1993232
Methylene Chloride(Dichloromethane)	ug/L	ND	1992214	ND	0.5	1993232
Methyl Isobutyl Ketone	ug/L	ND	1992214	ND	5	1993232
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	1992214	ND	5	1993232
Methyl t-butyl ether (MTBE)	ug/L	ND	1992214	ND	0.2	1993232
Styrene	ug/L	ND	1992214	ND	0.2	1993232
1,1,1,2-Tetrachloroethane	ug/L	ND	1992214	ND	0.1	1993232
1,1,1,2-Tetrachloroethane	ug/L	ND	1992214	ND	0.2	1993232
Tetrachloroethylene	ug/L	ND	1992214	ND	0.1	1993232
Toluene	ug/L	0.8	1992214	0.5	0.2	1993232

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6001		ED6002		
Sampling Date		2009/10/26 11:30		2009/10/26 10:00		
COC Number		167750-0		167750-0		
	Units	MW4	QC Batch	MW5	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	ND	1992214	ND	0.1	1993232
1,1,2-Trichloroethane	ug/L	ND	1992214	ND	0.2	1993232
Trichloroethylene	ug/L	ND	1992214	ND	0.1	1993232
Vinyl Chloride	ug/L	ND	1992214	ND	0.2	1993232
p+m-Xylene	ug/L	0.4	1992214	0.2	0.1	1993232
o-Xylene	ug/L	0.2	1992214	ND	0.1	1993232
Xylene (Total)	ug/L	0.6	1992214	0.2	0.1	1993232
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	99	1992214	98		1993232
D4-1,2-Dichloroethane	%	117	1992214	106		1993232
D8-Toluene	%	99	1992214	93		1993232
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6003	ED6004	ED6005		
Sampling Date		2009/10/26 02:30	2009/10/26 01:00	2009/10/26 04:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW6	MW7	MW8	RDL	QC Batch

Volatile Organics						
Acetone (2-Propanone)	ug/L	ND	ND	ND	10	1993232
Benzene	ug/L	ND	ND	0.1	0.1	1993232
Bromodichloromethane	ug/L	ND	ND	ND	0.1	1993232
Bromoform	ug/L	ND	ND	ND	0.2	1993232
Bromomethane	ug/L	ND	ND	ND	0.5	1993232
Carbon Tetrachloride	ug/L	ND	ND	ND	0.1	1993232
Chlorobenzene	ug/L	ND	ND	ND	0.1	1993232
Chloroform	ug/L	ND	ND	ND	0.1	1993232
Dibromochloromethane	ug/L	ND	ND	ND	0.2	1993232
1,2-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1993232
1,3-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1993232
1,4-Dichlorobenzene	ug/L	ND	ND	ND	0.2	1993232
1,1-Dichloroethane	ug/L	ND	ND	ND	0.1	1993232
1,2-Dichloroethane	ug/L	ND	ND	ND	0.2	1993232
1,1-Dichloroethylene	ug/L	ND	ND	ND	0.1	1993232
cis-1,2-Dichloroethylene	ug/L	ND	ND	ND	0.1	1993232
trans-1,2-Dichloroethylene	ug/L	ND	ND	ND	0.1	1993232
1,2-Dichloropropane	ug/L	ND	ND	ND	0.1	1993232
cis-1,3-Dichloropropene	ug/L	ND	ND	ND	0.2	1993232
trans-1,3-Dichloropropene	ug/L	ND	ND	ND	0.2	1993232
Ethylbenzene	ug/L	ND	ND	ND	0.1	1993232
Ethylene Dibromide	ug/L	ND	ND	ND	0.2	1993232
Methylene Chloride(Dichloromethane)	ug/L	ND	ND	ND	0.5	1993232
Methyl Isobutyl Ketone	ug/L	ND	ND	ND	5	1993232
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	ND	ND	5	1993232
Methyl t-butyl ether (MTBE)	ug/L	ND	ND	ND	0.2	1993232
Styrene	ug/L	ND	ND	ND	0.2	1993232
1,1,1,2-Tetrachloroethane	ug/L	ND	ND	ND	0.1	1993232
1,1,1,2,2-Tetrachloroethane	ug/L	ND	ND	ND	0.2	1993232
Tetrachloroethylene	ug/L	ND	ND	ND	0.1	1993232
Toluene	ug/L	0.4	0.3	0.2	0.2	1993232

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6003	ED6004	ED6005		
Sampling Date		2009/10/26 02:30	2009/10/26 01:00	2009/10/26 04:30		
COC Number		167750-0	167750-0	167750-0		
	Units	MW6	MW7	MW8	RDL	QC Batch
1,1,1-Trichloroethane	ug/L	ND	ND	ND	0.1	1993232
1,1,2-Trichloroethane	ug/L	ND	ND	ND	0.2	1993232
Trichloroethylene	ug/L	ND	ND	ND	0.1	1993232
Vinyl Chloride	ug/L	ND	ND	ND	0.2	1993232
p+m-Xylene	ug/L	0.1	ND	0.1	0.1	1993232
o-Xylene	ug/L	ND	ND	ND	0.1	1993232
Xylene (Total)	ug/L	0.1	ND	0.1	0.1	1993232
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	97	93	98		1993232
D4-1,2-Dichloroethane	%	106	105	105		1993232
D8-Toluene	%	95	94	96		1993232
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6006	ED6007		
Sampling Date					
COC Number		167750-0	167750-0		
	Units	TRIP BLANK	TRIP SPIKE	RDL	QC Batch

Volatile Organics					
Acetone (2-Propanone)	ug/L	ND	62	10	1993232
Benzene	ug/L	ND	110	0.1	1993232
Bromodichloromethane	ug/L	ND	100	0.1	1993232
Bromoform	ug/L	ND	97	0.2	1993232
Bromomethane	ug/L	ND	110	0.5	1993232
Carbon Tetrachloride	ug/L	ND	100	0.1	1993232
Chlorobenzene	ug/L	ND	93	0.1	1993232
Chloroform	ug/L	ND	100	0.1	1993232
Dibromochloromethane	ug/L	ND	86	0.2	1993232
1,2-Dichlorobenzene	ug/L	ND	88	0.2	1993232
1,3-Dichlorobenzene	ug/L	ND	85	0.2	1993232
1,4-Dichlorobenzene	ug/L	ND	85	0.2	1993232
1,1-Dichloroethane	ug/L	ND	110	0.1	1993232
1,2-Dichloroethane	ug/L	ND	110	0.2	1993232
1,1-Dichloroethylene	ug/L	ND	110	0.1	1993232
cis-1,2-Dichloroethylene	ug/L	ND	120	0.1	1993232
trans-1,2-Dichloroethylene	ug/L	ND	110	0.1	1993232
1,2-Dichloropropane	ug/L	ND	120	0.1	1993232
cis-1,3-Dichloropropene	ug/L	ND	98	0.2	1993232
trans-1,3-Dichloropropene	ug/L	ND	98	0.2	1993232
Ethylbenzene	ug/L	ND	100	0.1	1993232
Ethylene Dibromide	ug/L	ND	110	0.2	1993232
Methylene Chloride(Dichloromethane)	ug/L	ND	110	0.5	1993232
Methyl Isobutyl Ketone	ug/L	ND	130	5	1993232
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	88	5	1993232
Methyl t-butyl ether (MTBE)	ug/L	ND	110	0.2	1993232
Styrene	ug/L	ND	110	0.2	1993232
1,1,1,2-Tetrachloroethane	ug/L	ND	92	0.1	1993232
1,1,1,2,2-Tetrachloroethane	ug/L	ND	100	0.2	1993232
Tetrachloroethylene	ug/L	ND	86	0.1	1993232
Toluene	ug/L	ND	99	0.2	1993232
1,1,1-Trichloroethane	ug/L	ND	95	0.1	1993232
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E3687
 Report Date: 2009/11/03

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 153 VOLATILE ORGANICS (WATER)

Maxxam ID		ED6006	ED6007		
Sampling Date					
COC Number		167750-0	167750-0		
	Units	TRIP BLANK	TRIP SPIKE	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	ND	98	0.2	1993232
Trichloroethylene	ug/L	ND	100	0.1	1993232
Vinyl Chloride	ug/L	ND	120	0.2	1993232
p+m-Xylene	ug/L	ND	110	0.1	1993232
o-Xylene	ug/L	ND	110	0.1	1993232
Xylene (Total)	ug/L	ND		0.1	1993232
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	95	99		1993232
D4-1,2-Dichloroethane	%	103	103		1993232
D8-Toluene	%	94	99		1993232
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E3687
Report Date: 2009/11/03

AECOM Canada Ltd
Client Project #: 111853
Project name: TTC SHEPPARD

Package 1	10.7°C
Package 2	10.7°C
Package 3	10.7°C

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

GENERAL COMMENTS

Extractable hydrocarbons analysis: All samples were decanted prior to extraction as per client request.

Sample ED6007-01: VOC Analysis: Trip Spike results are expressed as percent recoveries.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report
 Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1991476 NGN	Matrix Spike	D10-Anthracene	2009/10/28		107	%	30 - 130		
		D14-Terphenyl (FS)	2009/10/28		101	%	30 - 130		
		D7-Quinoline	2009/10/28		108	%	30 - 130		
		D8-Acenaphthylene	2009/10/28		99	%	30 - 130		
		Acenaphthene	2009/10/28		90	%	30 - 130		
		Acenaphthylene	2009/10/28		87	%	30 - 130		
		Anthracene	2009/10/28		113	%	30 - 130		
		Benzo(a)anthracene	2009/10/28		105	%	30 - 130		
		Benzo(a)pyrene	2009/10/28		108	%	30 - 130		
		Benzo(b/j)fluoranthene	2009/10/28		120	%	30 - 130		
		Benzo(g,h,i)perylene	2009/10/28		95	%	30 - 130		
		Benzo(k)fluoranthene	2009/10/28		114	%	30 - 130		
		Chrysene	2009/10/28		120	%	30 - 130		
		Dibenz(a,h)anthracene	2009/10/28		99	%	30 - 130		
		Fluoranthene	2009/10/28		111	%	30 - 130		
		Fluorene	2009/10/28		108	%	30 - 130		
		Indeno(1,2,3-cd)pyrene	2009/10/28		95	%	30 - 130		
		1-Methylnaphthalene	2009/10/28		84	%	30 - 130		
		2-Methylnaphthalene	2009/10/28		80	%	30 - 130		
		Naphthalene	2009/10/28		76	%	30 - 130		
		Phenanthrene	2009/10/28		115	%	30 - 130		
		Pyrene	2009/10/28		110	%	30 - 130		
		Spiked Blank		D10-Anthracene	2009/10/28		103	%	30 - 130
				D14-Terphenyl (FS)	2009/10/28		102	%	30 - 130
				D7-Quinoline	2009/10/28		110	%	30 - 130
				D8-Acenaphthylene	2009/10/28		98	%	30 - 130
				Acenaphthene	2009/10/28		87	%	30 - 130
				Acenaphthylene	2009/10/28		89	%	30 - 130
				Anthracene	2009/10/28		104	%	30 - 130
				Benzo(a)anthracene	2009/10/28		98	%	30 - 130
				Benzo(a)pyrene	2009/10/28		113	%	30 - 130
				Benzo(b/j)fluoranthene	2009/10/28		103	%	30 - 130
				Benzo(g,h,i)perylene	2009/10/28		109	%	30 - 130
Benzo(k)fluoranthene	2009/10/28				102	%	30 - 130		
Chrysene	2009/10/28				114	%	30 - 130		
Dibenz(a,h)anthracene	2009/10/28				113	%	30 - 130		
Fluoranthene	2009/10/28				106	%	30 - 130		
Fluorene	2009/10/28				91	%	30 - 130		
Indeno(1,2,3-cd)pyrene	2009/10/28				121	%	30 - 130		
1-Methylnaphthalene	2009/10/28				90	%	30 - 130		
2-Methylnaphthalene	2009/10/28				82	%	30 - 130		
Naphthalene	2009/10/28				77	%	30 - 130		
Phenanthrene	2009/10/28				98	%	30 - 130		
Pyrene	2009/10/28				108	%	30 - 130		
Method Blank				D10-Anthracene	2009/10/28		98	%	30 - 130
				D14-Terphenyl (FS)	2009/10/28		107	%	30 - 130
				D7-Quinoline	2009/10/28		94	%	30 - 130
				D8-Acenaphthylene	2009/10/28		89	%	30 - 130
				Acenaphthene	2009/10/28	ND, RDL=0.05		ug/L	
				Acenaphthylene	2009/10/28	ND, RDL=0.05		ug/L	
				Anthracene	2009/10/28	ND, RDL=0.05		ug/L	
				Benzo(a)anthracene	2009/10/28	ND, RDL=0.05		ug/L	
				Benzo(a)pyrene	2009/10/28	ND, RDL=0.01		ug/L	
				Benzo(b/j)fluoranthene	2009/10/28	ND, RDL=0.05		ug/L	
				Benzo(g,h,i)perylene	2009/10/28	ND, RDL=0.1		ug/L	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1991476 NGN	Method Blank	Benzo(k)fluoranthene	2009/10/28	ND, RDL=0.05		ug/L		
		Chrysene	2009/10/28	ND, RDL=0.05		ug/L		
		Dibenz(a,h)anthracene	2009/10/28	ND, RDL=0.1		ug/L		
		Fluoranthene	2009/10/28	ND, RDL=0.05		ug/L		
		Fluorene	2009/10/28	ND, RDL=0.05		ug/L		
		Indeno(1,2,3-cd)pyrene	2009/10/28	ND, RDL=0.1		ug/L		
		1-Methylnaphthalene	2009/10/28	ND, RDL=0.05		ug/L		
		2-Methylnaphthalene	2009/10/28	ND, RDL=0.05		ug/L		
		Naphthalene	2009/10/28	ND, RDL=0.05		ug/L		
		Phenanthrene	2009/10/28	ND, RDL=0.05		ug/L		
		Pyrene	2009/10/28	ND, RDL=0.05		ug/L		
		RPD	Acenaphthene	2009/10/28	NC		%	40
			Acenaphthylene	2009/10/28	NC		%	40
			Anthracene	2009/10/28	NC		%	40
			Benzo(a)anthracene	2009/10/28	NC		%	40
	Benzo(a)pyrene		2009/10/28	NC		%	40	
	Benzo(b/j)fluoranthene		2009/10/28	NC		%	40	
	Benzo(g,h,i)perylene		2009/10/28	NC		%	40	
	Benzo(k)fluoranthene		2009/10/28	NC		%	40	
	Chrysene		2009/10/28	NC		%	40	
	Dibenz(a,h)anthracene		2009/10/28	NC		%	40	
	Fluoranthene		2009/10/28	NC		%	40	
	Fluorene		2009/10/28	NC		%	40	
	Indeno(1,2,3-cd)pyrene		2009/10/28	NC		%	40	
	1-Methylnaphthalene		2009/10/28	NC		%	40	
	2-Methylnaphthalene		2009/10/28	NC		%	40	
	Naphthalene		2009/10/28	NC		%	40	
	Phenanthrene		2009/10/28	63.2 (1)		%	40	
	Pyrene		2009/10/28	NC		%	40	
	1992214 DRA	Matrix Spike	4-Bromofluorobenzene	2009/10/29		97	%	70 - 130
			D4-1,2-Dichloroethane	2009/10/29		91	%	70 - 130
			D8-Toluene	2009/10/29		106	%	70 - 130
			Acetone (2-Propanone)	2009/10/29		49 (2)	%	60 - 140
Benzene			2009/10/29		95	%	70 - 130	
Bromodichloromethane			2009/10/29		83	%	70 - 130	
Bromoform			2009/10/29		90	%	70 - 130	
Bromomethane			2009/10/29		89	%	60 - 140	
Carbon Tetrachloride			2009/10/29		88	%	70 - 130	
Chlorobenzene			2009/10/29		97	%	70 - 130	
Chloroform			2009/10/29		90	%	70 - 130	
Dibromochloromethane			2009/10/29		91	%	70 - 130	
1,2-Dichlorobenzene			2009/10/29		93	%	70 - 130	
1,3-Dichlorobenzene			2009/10/29		99	%	70 - 130	
1,4-Dichlorobenzene			2009/10/29		99	%	70 - 130	
1,1-Dichloroethane			2009/10/29		91	%	70 - 130	
1,2-Dichloroethane			2009/10/29		86	%	70 - 130	
1,1-Dichloroethylene			2009/10/29		99	%	70 - 130	
cis-1,2-Dichloroethylene			2009/10/29		93	%	70 - 130	
trans-1,2-Dichloroethylene			2009/10/29		94	%	70 - 130	
1,2-Dichloropropane			2009/10/29		100	%	70 - 130	
cis-1,3-Dichloropropene			2009/10/29		96	%	70 - 130	
trans-1,3-Dichloropropene			2009/10/29		88	%	70 - 130	
Ethylbenzene			2009/10/29		107	%	70 - 130	
Ethylene Dibromide			2009/10/29		94	%	70 - 130	
Methylene Chloride(Dichloromethane)			2009/10/29		91	%	70 - 130	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1992214 DRA	Matrix Spike	Methyl Isobutyl Ketone	2009/10/29		98	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29		64	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/29		90	%	70 - 130
		Styrene	2009/10/29		112	%	70 - 130
		1,1,1,2-Tetrachloroethane	2009/10/29		91	%	70 - 130
		1,1,2,2-Tetrachloroethane	2009/10/29		91	%	70 - 130
		Tetrachloroethylene	2009/10/29		97	%	70 - 130
		Toluene	2009/10/29		99	%	70 - 130
		1,1,1-Trichloroethane	2009/10/29		84	%	70 - 130
		1,1,2-Trichloroethane	2009/10/29		91	%	70 - 130
		Trichloroethylene	2009/10/29		89	%	70 - 130
		Vinyl Chloride	2009/10/29		105	%	70 - 130
		p+m-Xylene	2009/10/29		106	%	70 - 130
		o-Xylene	2009/10/29		106	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2009/10/29		97	%	70 - 130
		D4-1,2-Dichloroethane	2009/10/29		103	%	70 - 130
		D8-Toluene	2009/10/29		104	%	70 - 130
		Acetone (2-Propanone)	2009/10/29		59 (2)	%	60 - 140
		Benzene	2009/10/29		99	%	70 - 130
		Bromodichloromethane	2009/10/29		88	%	70 - 130
		Bromoform	2009/10/29		98	%	70 - 130
		Bromomethane	2009/10/29		84	%	60 - 140
		Carbon Tetrachloride	2009/10/29		90	%	70 - 130
		Chlorobenzene	2009/10/29		98	%	70 - 130
		Chloroform	2009/10/29		91	%	70 - 130
		Dibromochloromethane	2009/10/29		97	%	70 - 130
		1,2-Dichlorobenzene	2009/10/29		95	%	70 - 130
		1,3-Dichlorobenzene	2009/10/29		98	%	70 - 130
		1,4-Dichlorobenzene	2009/10/29		100	%	70 - 130
		1,1-Dichloroethane	2009/10/29		93	%	70 - 130
		1,2-Dichloroethane	2009/10/29		96	%	70 - 130
		1,1-Dichloroethylene	2009/10/29		103	%	70 - 130
		cis-1,2-Dichloroethylene	2009/10/29		97	%	70 - 130
		trans-1,2-Dichloroethylene	2009/10/29		98	%	70 - 130
		1,2-Dichloropropane	2009/10/29		105	%	70 - 130
		cis-1,3-Dichloropropene	2009/10/29		102	%	70 - 130
		trans-1,3-Dichloropropene	2009/10/29		97	%	70 - 130
		Ethylbenzene	2009/10/29		106	%	70 - 130
		Ethylene Dibromide	2009/10/29		104	%	70 - 130
		Methylene Chloride(Dichloromethane)	2009/10/29		97	%	70 - 130
		Methyl Isobutyl Ketone	2009/10/29		117	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29		79	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/29		105	%	70 - 130
		Styrene	2009/10/29		116	%	70 - 130
		1,1,1,2-Tetrachloroethane	2009/10/29		94	%	70 - 130
		1,1,2,2-Tetrachloroethane	2009/10/29		104	%	70 - 130
		Tetrachloroethylene	2009/10/29		97	%	70 - 130
		Toluene	2009/10/29		101	%	70 - 130
		1,1,1-Trichloroethane	2009/10/29		88	%	70 - 130
		1,1,2-Trichloroethane	2009/10/29		100	%	70 - 130
		Trichloroethylene	2009/10/29		90	%	70 - 130
		Vinyl Chloride	2009/10/29		107	%	70 - 130
		p+m-Xylene	2009/10/29		107	%	70 - 130
		o-Xylene	2009/10/29		107	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2009/10/29		98	%	70 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1992214 DRA	Method Blank	D4-1,2-Dichloroethane	2009/10/29		105	%	70 - 130
		D8-Toluene	2009/10/29		99	%	70 - 130
		Acetone (2-Propanone)	2009/10/29	ND, RDL=10		ug/L	
		Benzene	2009/10/29	ND, RDL=0.1		ug/L	
		Bromodichloromethane	2009/10/29	ND, RDL=0.1		ug/L	
		Bromoform	2009/10/29	ND, RDL=0.2		ug/L	
		Bromomethane	2009/10/29	ND, RDL=0.5		ug/L	
		Carbon Tetrachloride	2009/10/29	ND, RDL=0.1		ug/L	
		Chlorobenzene	2009/10/29	ND, RDL=0.1		ug/L	
		Chloroform	2009/10/29	ND, RDL=0.1		ug/L	
		Dibromochloromethane	2009/10/29	ND, RDL=0.2		ug/L	
		1,2-Dichlorobenzene	2009/10/29	ND, RDL=0.2		ug/L	
		1,3-Dichlorobenzene	2009/10/29	ND, RDL=0.2		ug/L	
		1,4-Dichlorobenzene	2009/10/29	ND, RDL=0.2		ug/L	
		1,1-Dichloroethane	2009/10/29	ND, RDL=0.1		ug/L	
		1,2-Dichloroethane	2009/10/29	ND, RDL=0.2		ug/L	
		1,1-Dichloroethylene	2009/10/29	ND, RDL=0.1		ug/L	
		cis-1,2-Dichloroethylene	2009/10/29	ND, RDL=0.1		ug/L	
		trans-1,2-Dichloroethylene	2009/10/29	ND, RDL=0.1		ug/L	
		1,2-Dichloropropane	2009/10/29	ND, RDL=0.1		ug/L	
		cis-1,3-Dichloropropene	2009/10/29	ND, RDL=0.2		ug/L	
		trans-1,3-Dichloropropene	2009/10/29	ND, RDL=0.2		ug/L	
		Ethylbenzene	2009/10/29	ND, RDL=0.1		ug/L	
		Ethylene Dibromide	2009/10/29	ND, RDL=0.2		ug/L	
		Methylene Chloride(Dichloromethane)	2009/10/29	ND, RDL=0.5		ug/L	
		Methyl Isobutyl Ketone	2009/10/29	ND, RDL=5		ug/L	
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29	ND, RDL=5		ug/L	
		Methyl t-butyl ether (MTBE)	2009/10/29	ND, RDL=0.2		ug/L	
		Styrene	2009/10/29	ND, RDL=0.2		ug/L	
		1,1,1,2-Tetrachloroethane	2009/10/29	ND, RDL=0.1		ug/L	
		1,1,2,2-Tetrachloroethane	2009/10/29	ND, RDL=0.2		ug/L	
		Tetrachloroethylene	2009/10/29	ND, RDL=0.1		ug/L	
		Toluene	2009/10/29	ND, RDL=0.2		ug/L	
		1,1,1-Trichloroethane	2009/10/29	ND, RDL=0.1		ug/L	
		1,1,2-Trichloroethane	2009/10/29	ND, RDL=0.2		ug/L	
		Trichloroethylene	2009/10/29	ND, RDL=0.1		ug/L	
		Vinyl Chloride	2009/10/29	ND, RDL=0.2		ug/L	
		p+m-Xylene	2009/10/29	ND, RDL=0.1		ug/L	
		o-Xylene	2009/10/29	ND, RDL=0.1		ug/L	
		Xylene (Total)	2009/10/29	ND, RDL=0.1		ug/L	
	RPD	Acetone (2-Propanone)	2009/10/29	NC		%	40
		Benzene	2009/10/29	NC		%	40
		Bromodichloromethane	2009/10/29	3.3		%	40
		Bromoform	2009/10/29	NC		%	40
		Bromomethane	2009/10/29	NC		%	40
		Carbon Tetrachloride	2009/10/29	NC		%	40
		Chlorobenzene	2009/10/29	NC		%	40
		Chloroform	2009/10/29	3.5		%	40
		Dibromochloromethane	2009/10/29	2.5		%	40
		1,2-Dichlorobenzene	2009/10/29	NC		%	40
		1,3-Dichlorobenzene	2009/10/29	NC		%	40
		1,4-Dichlorobenzene	2009/10/29	NC		%	40
		1,1-Dichloroethane	2009/10/29	NC		%	40
		1,2-Dichloroethane	2009/10/29	NC		%	40
		1,1-Dichloroethylene	2009/10/29	NC		%	40

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1992214 DRA	RPD	cis-1,2-Dichloroethylene	2009/10/29	NC		%	40
		trans-1,2-Dichloroethylene	2009/10/29	NC		%	40
		1,2-Dichloropropane	2009/10/29	NC		%	40
		cis-1,3-Dichloropropene	2009/10/29	NC		%	40
		trans-1,3-Dichloropropene	2009/10/29	NC		%	40
		Ethylbenzene	2009/10/29	NC		%	40
		Ethylene Dibromide	2009/10/29	NC		%	40
		Methylene Chloride(Dichloromethane)	2009/10/29	NC		%	40
		Methyl Isobutyl Ketone	2009/10/29	NC		%	40
		Methyl Ethyl Ketone (2-Butanone)	2009/10/29	NC		%	40
		Methyl t-butyl ether (MTBE)	2009/10/29	NC		%	40
		Styrene	2009/10/29	NC		%	40
		1,1,1,2-Tetrachloroethane	2009/10/29	NC		%	40
		1,1,2,2-Tetrachloroethane	2009/10/29	NC		%	40
		Tetrachloroethylene	2009/10/29	NC		%	40
		Toluene	2009/10/29	NC		%	40
		1,1,1-Trichloroethane	2009/10/29	NC		%	40
		1,1,2-Trichloroethane	2009/10/29	NC		%	40
		Trichloroethylene	2009/10/29	NC		%	40
		Vinyl Chloride	2009/10/29	NC		%	40
		p+m-Xylene	2009/10/29	NC		%	40
		o-Xylene	2009/10/29	NC		%	40
		Xylene (Total)	2009/10/29	NC		%	40
1993232 DRA	Matrix Spike	4-Bromofluorobenzene	2009/10/30		96	%	70 - 130
		D4-1,2-Dichloroethane	2009/10/30		90	%	70 - 130
		D8-Toluene	2009/10/30		104	%	70 - 130
		Acetone (2-Propanone)	2009/10/30		57 (2)	%	60 - 140
		Benzene	2009/10/30		99	%	70 - 130
		Bromodichloromethane	2009/10/30		84	%	70 - 130
		Bromoform	2009/10/30		97	%	70 - 130
		Bromomethane	2009/10/30		97	%	60 - 140
		Carbon Tetrachloride	2009/10/30		85	%	70 - 130
		Chlorobenzene	2009/10/30		99	%	70 - 130
		Chloroform	2009/10/30		83	%	70 - 130
		Dibromochloromethane	2009/10/30		98	%	70 - 130
		1,2-Dichlorobenzene	2009/10/30		95	%	70 - 130
		1,3-Dichlorobenzene	2009/10/30		97	%	70 - 130
		1,4-Dichlorobenzene	2009/10/30		99	%	70 - 130
		1,1-Dichloroethane	2009/10/30		95	%	70 - 130
		1,2-Dichloroethane	2009/10/30		93	%	70 - 130
		1,1-Dichloroethylene	2009/10/30		100	%	70 - 130
		cis-1,2-Dichloroethylene	2009/10/30		96	%	70 - 130
		trans-1,2-Dichloroethylene	2009/10/30		96	%	70 - 130
		1,2-Dichloropropane	2009/10/30		109	%	70 - 130
		cis-1,3-Dichloropropene	2009/10/30		99	%	70 - 130
		trans-1,3-Dichloropropene	2009/10/30		93	%	70 - 130
		Ethylbenzene	2009/10/30		105	%	70 - 130
		Ethylene Dibromide	2009/10/30		108	%	70 - 130
		Methylene Chloride(Dichloromethane)	2009/10/30		98	%	70 - 130
		Methyl Isobutyl Ketone	2009/10/30		125	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/30		87	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/30		107	%	70 - 130
		Styrene	2009/10/30		1.5 (3)	%	70 - 130
		1,1,1,2-Tetrachloroethane	2009/10/30		93	%	70 - 130
		1,1,2,2-Tetrachloroethane	2009/10/30		107	%	70 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1993232 DRA	Matrix Spike	Tetrachloroethylene	2009/10/30		95	%	70 - 130
		Toluene	2009/10/30		100	%	70 - 130
		1,1,1-Trichloroethane	2009/10/30		84	%	70 - 130
		1,1,2-Trichloroethane	2009/10/30		102	%	70 - 130
		Trichloroethylene	2009/10/30		89	%	70 - 130
		Vinyl Chloride	2009/10/30		99	%	70 - 130
		p+m-Xylene	2009/10/30		42 (3)	%	70 - 130
		o-Xylene	2009/10/30		92	%	70 - 130
	Spiked Blank	4-Bromofluorobenzene	2009/10/30		99	%	70 - 130
		D4-1,2-Dichloroethane	2009/10/30		103	%	70 - 130
		D8-Toluene	2009/10/30		100	%	70 - 130
		Acetone (2-Propanone)	2009/10/30		63	%	60 - 140
		Benzene	2009/10/30		114	%	70 - 130
		Bromodichloromethane	2009/10/30		97	%	70 - 130
		Bromoform	2009/10/30		91	%	70 - 130
		Bromomethane	2009/10/30		111	%	60 - 140
		Carbon Tetrachloride	2009/10/30		97	%	70 - 130
		Chlorobenzene	2009/10/30		98	%	70 - 130
		Chloroform	2009/10/30		103	%	70 - 130
		Dibromochloromethane	2009/10/30		92	%	70 - 130
		1,2-Dichlorobenzene	2009/10/30		92	%	70 - 130
		1,3-Dichlorobenzene	2009/10/30		93	%	70 - 130
		1,4-Dichlorobenzene	2009/10/30		96	%	70 - 130
		1,1-Dichloroethane	2009/10/30		109	%	70 - 130
		1,2-Dichloroethane	2009/10/30		107	%	70 - 130
		1,1-Dichloroethylene	2009/10/30		117	%	70 - 130
		cis-1,2-Dichloroethylene	2009/10/30		110	%	70 - 130
		trans-1,2-Dichloroethylene	2009/10/30		111	%	70 - 130
		1,2-Dichloropropane	2009/10/30		123	%	70 - 130
		cis-1,3-Dichloropropene	2009/10/30		112	%	70 - 130
		trans-1,3-Dichloropropene	2009/10/30		106	%	70 - 130
		Ethylbenzene	2009/10/30		106	%	70 - 130
		Ethylene Dibromide	2009/10/30		105	%	70 - 130
		Methylene Chloride(Dichloromethane)	2009/10/30		111	%	70 - 130
		Methyl Isobutyl Ketone	2009/10/30		137	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2009/10/30		90	%	60 - 140
		Methyl t-butyl ether (MTBE)	2009/10/30		117	%	70 - 130
		Styrene	2009/10/30		118	%	70 - 130
		1,1,1,2-Tetrachloroethane	2009/10/30		92	%	70 - 130
		1,1,2,2-Tetrachloroethane	2009/10/30		106	%	70 - 130
		Tetrachloroethylene	2009/10/30		93	%	70 - 130
		Toluene	2009/10/30		102	%	70 - 130
		1,1,1-Trichloroethane	2009/10/30		97	%	70 - 130
		1,1,2-Trichloroethane	2009/10/30		99	%	70 - 130
		Trichloroethylene	2009/10/30		102	%	70 - 130
		Vinyl Chloride	2009/10/30		125	%	70 - 130
		p+m-Xylene	2009/10/30		106	%	70 - 130
		o-Xylene	2009/10/30		107	%	70 - 130
	Method Blank	4-Bromofluorobenzene	2009/10/30		96	%	70 - 130
		D4-1,2-Dichloroethane	2009/10/30		107	%	70 - 130
		D8-Toluene	2009/10/30		95	%	70 - 130
		Acetone (2-Propanone)	2009/10/30	ND, RDL=10		ug/L	
		Benzene	2009/10/30	ND, RDL=0.1		ug/L	
		Bromodichloromethane	2009/10/30	ND, RDL=0.1		ug/L	
		Bromoform	2009/10/30	ND, RDL=0.2		ug/L	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1993232 DRA	Method Blank	Bromomethane	2009/10/30	ND, RDL=0.5		ug/L	
		Carbon Tetrachloride	2009/10/30	ND, RDL=0.1		ug/L	
		Chlorobenzene	2009/10/30	ND, RDL=0.1		ug/L	
		Chloroform	2009/10/30	ND, RDL=0.1		ug/L	
		Dibromochloromethane	2009/10/30	ND, RDL=0.2		ug/L	
		1,2-Dichlorobenzene	2009/10/30	ND, RDL=0.2		ug/L	
		1,3-Dichlorobenzene	2009/10/30	ND, RDL=0.2		ug/L	
		1,4-Dichlorobenzene	2009/10/30	ND, RDL=0.2		ug/L	
		1,1-Dichloroethane	2009/10/30	ND, RDL=0.1		ug/L	
		1,2-Dichloroethane	2009/10/30	ND, RDL=0.2		ug/L	
		1,1-Dichloroethylene	2009/10/30	ND, RDL=0.1		ug/L	
		cis-1,2-Dichloroethylene	2009/10/30	ND, RDL=0.1		ug/L	
		trans-1,2-Dichloroethylene	2009/10/30	ND, RDL=0.1		ug/L	
		1,2-Dichloropropane	2009/10/30	ND, RDL=0.1		ug/L	
		cis-1,3-Dichloropropene	2009/10/30	ND, RDL=0.2		ug/L	
		trans-1,3-Dichloropropene	2009/10/30	ND, RDL=0.2		ug/L	
		Ethylbenzene	2009/10/30	ND, RDL=0.1		ug/L	
		Ethylene Dibromide	2009/10/30	ND, RDL=0.2		ug/L	
		Methylene Chloride(Dichloromethane)	2009/10/30	ND, RDL=0.5		ug/L	
		Methyl Isobutyl Ketone	2009/10/30	ND, RDL=5		ug/L	
		Methyl Ethyl Ketone (2-Butanone)	2009/10/30	ND, RDL=5		ug/L	
		Methyl t-butyl ether (MTBE)	2009/10/30	ND, RDL=0.2		ug/L	
		Styrene	2009/10/30	ND, RDL=0.2		ug/L	
		1,1,1,2-Tetrachloroethane	2009/10/30	ND, RDL=0.1		ug/L	
		1,1,2,2-Tetrachloroethane	2009/10/30	ND, RDL=0.2		ug/L	
		Tetrachloroethylene	2009/10/30	ND, RDL=0.1		ug/L	
		Toluene	2009/10/30	ND, RDL=0.2		ug/L	
		1,1,1-Trichloroethane	2009/10/30	ND, RDL=0.1		ug/L	
		1,1,2-Trichloroethane	2009/10/30	ND, RDL=0.2		ug/L	
		Trichloroethylene	2009/10/30	ND, RDL=0.1		ug/L	
		Vinyl Chloride	2009/10/30	ND, RDL=0.2		ug/L	
		p+m-Xylene	2009/10/30	ND, RDL=0.1		ug/L	
		o-Xylene	2009/10/30	ND, RDL=0.1		ug/L	
		Xylene (Total)	2009/10/30	ND, RDL=0.1		ug/L	
	RPD	Acetone (2-Propanone)	2009/10/31	NC		%	40
		Benzene	2009/10/31	NC		%	40
		Bromodichloromethane	2009/10/31	15.7		%	40
		Bromoform	2009/10/31	NC		%	40
		Bromomethane	2009/10/31	NC		%	40
		Carbon Tetrachloride	2009/10/31	NC		%	40
		Chlorobenzene	2009/10/31	NC		%	40
		Chloroform	2009/10/31	15.5		%	40
		Dibromochloromethane	2009/10/31	5.6		%	40
		1,2-Dichlorobenzene	2009/10/31	NC		%	40
		1,3-Dichlorobenzene	2009/10/31	NC		%	40
		1,4-Dichlorobenzene	2009/10/31	NC		%	40
		1,1-Dichloroethane	2009/10/31	NC		%	40
		1,2-Dichloroethane	2009/10/31	NC		%	40
		1,1-Dichloroethylene	2009/10/31	NC		%	40
		cis-1,2-Dichloroethylene	2009/10/31	NC		%	40
		trans-1,2-Dichloroethylene	2009/10/31	NC		%	40
		1,2-Dichloropropane	2009/10/31	NC		%	40
		cis-1,3-Dichloropropene	2009/10/31	NC		%	40
		trans-1,3-Dichloropropene	2009/10/31	NC		%	40
		Ethylbenzene	2009/10/31	3.5		%	40

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1993232 DRA	RPD	Ethylene Dibromide	2009/10/31	NC		%	40
		Methylene Chloride(Dichloromethane)	2009/10/31	NC		%	40
		Methyl Isobutyl Ketone	2009/10/31	NC		%	40
		Methyl Ethyl Ketone (2-Butanone)	2009/10/31	NC		%	40
		Methyl t-butyl ether (MTBE)	2009/10/31	NC		%	40
		Styrene	2009/10/31	NC		%	40
		1,1,1,2-Tetrachloroethane	2009/10/31	NC		%	40
		1,1,2,2-Tetrachloroethane	2009/10/31	NC		%	40
		Tetrachloroethylene	2009/10/31	NC		%	40
		Toluene	2009/10/31	3.9		%	40
		1,1,1-Trichloroethane	2009/10/31	NC		%	40
		1,1,2-Trichloroethane	2009/10/31	NC		%	40
		Trichloroethylene	2009/10/31	NC		%	40
		Vinyl Chloride	2009/10/31	NC		%	40
		p+m-Xylene	2009/10/31	25.3		%	40
		o-Xylene	2009/10/31	NC		%	40
		Xylene (Total)	2009/10/31	25.3		%	40
1993415 MC	Matrix Spike	Mercury (Hg)	2009/10/29		99	%	75 - 125
	Spiked Blank	Mercury (Hg)	2009/10/29		97	%	84 - 113
	Method Blank	Mercury (Hg)	2009/10/29	ND, RDL=0.1		ug/L	
	RPD	Mercury (Hg)	2009/10/29	NC		%	25
1995222 CP	Matrix Spike	Free Cyanide	2009/10/30		84	%	80 - 120
	Spiked Blank	Free Cyanide	2009/10/30		101	%	90 - 110
	Method Blank	Free Cyanide	2009/10/30	ND, RDL=2		ug/L	
	RPD	Free Cyanide	2009/10/30	NC		%	25
1996502 DRM	Matrix Spike	Dissolved Chloride (Cl)	2009/11/03		NC	%	75 - 125
	Spiked Blank	Dissolved Chloride (Cl)	2009/11/03		105	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2009/11/03	ND, RDL=1		mg/L	
	RPD	Dissolved Chloride (Cl)	2009/11/03	0.09		%	20
1996524 AHA	Matrix Spike	Nitrite (N)	2009/10/31		NC	%	75 - 125
		Nitrate (N)	2009/10/31		NC	%	75 - 125
	Spiked Blank	Nitrite (N)	2009/10/31		105	%	80 - 120
		Nitrate (N)	2009/10/31		93	%	80 - 120
	Method Blank	Nitrite (N)	2009/10/31	ND, RDL=0.01		mg/L	
		Nitrate (N)	2009/10/31	ND, RDL=0.1		mg/L	
		Nitrate + Nitrite	2009/10/31	ND, RDL=0.1		mg/L	
	RPD	Nitrite (N)	2009/10/31	0.06		%	25
		Nitrate (N)	2009/10/31	0.4		%	25
1996590 DCA	Matrix Spike [ED5998-07]	1,4-Difluorobenzene	2009/11/01		100	%	70 - 130
		4-Bromofluorobenzene	2009/11/01		97	%	70 - 130
		D10-Ethylbenzene	2009/11/01		100	%	70 - 130
		D4-1,2-Dichloroethane	2009/11/01		105	%	70 - 130
		Benzene	2009/11/01		99	%	70 - 130
		Toluene	2009/11/01		94	%	70 - 130
		Ethylbenzene	2009/11/01		99	%	70 - 130
		o-Xylene	2009/11/01		105	%	70 - 130
		p+m-Xylene	2009/11/01		101	%	70 - 130
		F1 (C6-C10)	2009/11/01		90	%	70 - 130
	Spiked Blank	1,4-Difluorobenzene	2009/11/01		104	%	70 - 130
		4-Bromofluorobenzene	2009/11/01		99	%	70 - 130
		D10-Ethylbenzene	2009/11/01		100	%	70 - 130
		D4-1,2-Dichloroethane	2009/11/01		106	%	70 - 130
		Benzene	2009/11/01		100	%	70 - 130
		Toluene	2009/11/01		96	%	70 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
1996590 DCA	Spiked Blank	Ethylbenzene	2009/11/01		101	%	70 - 130	
		o-Xylene	2009/11/01		104	%	70 - 130	
		p+m-Xylene	2009/11/01		104	%	70 - 130	
	Method Blank	F1 (C6-C10)	2009/11/01		113	%	70 - 130	
		1,4-Difluorobenzene	2009/11/01		73	%	70 - 130	
		4-Bromofluorobenzene	2009/11/01		96	%	70 - 130	
		D10-Ethylbenzene	2009/11/01		98	%	70 - 130	
		D4-1,2-Dichloroethane	2009/11/01		92	%	70 - 130	
		Benzene	2009/11/01	ND, RDL=0.2		ug/L		
		Toluene	2009/11/01	ND, RDL=0.2		ug/L		
		Ethylbenzene	2009/11/01	ND, RDL=0.2		ug/L		
		o-Xylene	2009/11/01	ND, RDL=0.2		ug/L		
		p+m-Xylene	2009/11/01	ND, RDL=0.4		ug/L		
	Total Xylenes	2009/11/01	ND, RDL=0.4		ug/L			
	F1 (C6-C10)	2009/11/01	ND, RDL=100		ug/L			
	F1 (C6-C10) - BTEX	2009/11/01	ND, RDL=100		ug/L			
	RPD [ED5998-07]	Benzene	2009/11/01	NC		%	40	
		Toluene	2009/11/01	NC		%	40	
		Ethylbenzene	2009/11/01	NC		%	40	
		o-Xylene	2009/11/01	NC		%	40	
		p+m-Xylene	2009/11/01	NC		%	40	
		Total Xylenes	2009/11/01	NC		%	40	
		F1 (C6-C10)	2009/11/01	NC		%	40	
F1 (C6-C10) - BTEX		2009/11/01	NC		%	40		
1996824 CCI		Matrix Spike	Nitrite (N)	2009/11/02		104	%	75 - 125
			Nitrate (N)	2009/11/02		99	%	75 - 125
	Spiked Blank	Nitrite (N)	2009/11/02		106	%	80 - 120	
		Nitrate (N)	2009/11/02		96	%	80 - 120	
	Method Blank	Nitrite (N)	2009/11/02	ND, RDL=0.01		mg/L		
		Nitrate (N)	2009/11/02	ND, RDL=0.1		mg/L		
		Nitrate + Nitrite	2009/11/02	ND, RDL=0.1		mg/L		
	RPD	Nitrite (N)	2009/11/02	NC		%	25	
		Nitrate (N)	2009/11/02	NC		%	25	
		Nitrate + Nitrite	2009/11/02	NC		%	25	
	1996825 CCI	Matrix Spike	Nitrite (N)	2009/11/02		108	%	75 - 125
			Nitrate (N)	2009/11/02		100	%	75 - 125
		Spiked Blank	Nitrite (N)	2009/11/02		105	%	80 - 120
			Nitrate (N)	2009/11/02		96	%	80 - 120
		Method Blank	Nitrite (N)	2009/11/02	ND, RDL=0.01		mg/L	
Nitrate (N)			2009/11/02	ND, RDL=0.1		mg/L		
Nitrate + Nitrite			2009/11/02	ND, RDL=0.1		mg/L		
RPD		Nitrite (N)	2009/11/02	NC		%	25	
		Nitrate (N)	2009/11/02	NC		%	25	
		Nitrate + Nitrite	2009/11/02	NC		%	25	
1996827 DRM		Matrix Spike	Dissolved Chloride (Cl)	2009/11/03		NC	%	75 - 125
		Spiked Blank	Dissolved Chloride (Cl)	2009/11/03		106	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2009/11/03	ND, RDL=1		mg/L		
	RPD	Dissolved Chloride (Cl)	2009/11/03	0.7		%	20	
1996873 SAC	Matrix Spike [ED5999-03]	Chromium (VI)	2009/11/02		103	%	75 - 125	
	Spiked Blank	Chromium (VI)	2009/11/02		105	%	75 - 125	
	Method Blank	Chromium (VI)	2009/11/02	ND, RDL=5		ug/L		
	RPD [ED5999-03]	Chromium (VI)	2009/11/02	NC		%	25	
1996899 NCI	Matrix Spike	o-Terphenyl	2009/11/03		110	%	30 - 130	
		F2 (C10-C16 Hydrocarbons)	2009/11/03		97	%	60 - 130	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1996899 NCI	Matrix Spike	F3 (C16-C34 Hydrocarbons)	2009/11/03		97	%	60 - 130		
		F4 (C34-C50 Hydrocarbons)	2009/11/03		97	%	60 - 130		
	Spiked Blank	o-Terphenyl	2009/11/03		108	%	30 - 130		
		F2 (C10-C16 Hydrocarbons)	2009/11/03		95	%	60 - 130		
		F3 (C16-C34 Hydrocarbons)	2009/11/03		95	%	60 - 130		
	Method Blank	F4 (C34-C50 Hydrocarbons)	2009/11/03		95	%	60 - 130		
		o-Terphenyl	2009/11/03		108	%	30 - 130		
		F2 (C10-C16 Hydrocarbons)	2009/11/03	ND, RDL=100			ug/L		
		F3 (C16-C34 Hydrocarbons)	2009/11/03	ND, RDL=100			ug/L		
	RPD	F4 (C34-C50 Hydrocarbons)	2009/11/03	ND, RDL=100			ug/L		
		F2 (C10-C16 Hydrocarbons)	2009/11/03	NC		%		50	
		F3 (C16-C34 Hydrocarbons)	2009/11/03	NC		%		50	
		F4 (C34-C50 Hydrocarbons)	2009/11/03	NC		%		50	
	1997765 VIV	Matrix Spike	Dissolved Antimony (Sb)	2009/11/03		100	%	80 - 120	
Dissolved Arsenic (As)			2009/11/03		101	%	80 - 120		
Dissolved Barium (Ba)			2009/11/03		103	%	80 - 120		
Dissolved Beryllium (Be)			2009/11/03		101	%	80 - 120		
Dissolved Boron (B)			2009/11/03		101	%	80 - 120		
Dissolved Cadmium (Cd)			2009/11/03		102	%	80 - 120		
Dissolved Chromium (Cr)			2009/11/03		100	%	80 - 120		
Dissolved Cobalt (Co)			2009/11/03		98	%	80 - 120		
Dissolved Copper (Cu)			2009/11/03		98	%	80 - 120		
Dissolved Lead (Pb)			2009/11/03		101	%	80 - 120		
Dissolved Molybdenum (Mo)			2009/11/03		103	%	80 - 120		
Dissolved Nickel (Ni)			2009/11/03		97	%	80 - 120		
Dissolved Selenium (Se)			2009/11/03		101	%	80 - 120		
Dissolved Silver (Ag)			2009/11/03		98	%	80 - 120		
Dissolved Sodium (Na)			2009/11/03		NC	%		80 - 120	
Dissolved Thallium (Tl)			2009/11/03		103	%		80 - 120	
Dissolved Vanadium (V)			2009/11/03		102	%		80 - 120	
Spiked Blank		Dissolved Zinc (Zn)	2009/11/03		99	%		80 - 120	
		Dissolved Antimony (Sb)	2009/11/03		99	%		90 - 110	
		Dissolved Arsenic (As)	2009/11/03		97	%		90 - 110	
		Dissolved Barium (Ba)	2009/11/03		98	%		90 - 110	
		Dissolved Beryllium (Be)	2009/11/03		93	%		90 - 110	
		Dissolved Boron (B)	2009/11/03		97	%		90 - 110	
		Dissolved Cadmium (Cd)	2009/11/03		99	%		90 - 110	
		Dissolved Chromium (Cr)	2009/11/03		96	%		90 - 110	
		Dissolved Cobalt (Co)	2009/11/03		98	%		90 - 110	
		Dissolved Copper (Cu)	2009/11/03		97	%		90 - 110	
		Dissolved Lead (Pb)	2009/11/03		97	%		90 - 110	
		Dissolved Molybdenum (Mo)	2009/11/03		101	%		90 - 110	
		Dissolved Nickel (Ni)	2009/11/03		96	%		90 - 110	
		Dissolved Selenium (Se)	2009/11/03		98	%		90 - 110	
		Dissolved Silver (Ag)	2009/11/03		95	%		90 - 110	
		Method Blank	Dissolved Sodium (Na)	2009/11/03		103	%		90 - 110
			Dissolved Thallium (Tl)	2009/11/03		100	%		90 - 110
Dissolved Vanadium (V)	2009/11/03			98	%		90 - 110		
Dissolved Zinc (Zn)	2009/11/03			99	%		90 - 110		
Dissolved Antimony (Sb)	2009/11/03		ND, RDL=0.5			ug/L			
Dissolved Arsenic (As)	2009/11/03		ND, RDL=1			ug/L			
Dissolved Barium (Ba)	2009/11/03		ND, RDL=5			ug/L			
Dissolved Beryllium (Be)	2009/11/03	ND, RDL=0.5			ug/L				
Dissolved Boron (B)	2009/11/03	ND, RDL=10			ug/L				
Dissolved Cadmium (Cd)	2009/11/03	ND, RDL=0.1			ug/L				

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1997765 VIV	Method Blank	Dissolved Chromium (Cr)	2009/11/03	ND, RDL=5		ug/L	
		Dissolved Cobalt (Co)	2009/11/03	ND, RDL=0.5		ug/L	
		Dissolved Copper (Cu)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Lead (Pb)	2009/11/03	ND, RDL=0.5		ug/L	
		Dissolved Molybdenum (Mo)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Nickel (Ni)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Selenium (Se)	2009/11/03	ND, RDL=2		ug/L	
		Dissolved Silver (Ag)	2009/11/03	ND, RDL=0.1		ug/L	
		Dissolved Sodium (Na)	2009/11/03	ND, RDL=100		ug/L	
		Dissolved Thallium (Tl)	2009/11/03	ND, RDL=0.05		ug/L	
		Dissolved Vanadium (V)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Zinc (Zn)	2009/11/03	ND, RDL=5		ug/L	
		1998295 HRE	RPD	Dissolved Lead (Pb)	2009/11/03	NC	
Matrix Spike	Dissolved Antimony (Sb)		2009/11/03		106	%	80 - 120
	Dissolved Arsenic (As)		2009/11/03		105	%	80 - 120
	Dissolved Barium (Ba)		2009/11/03		100	%	80 - 120
	Dissolved Beryllium (Be)		2009/11/03		104	%	80 - 120
	Dissolved Boron (B)		2009/11/03		101	%	80 - 120
	Dissolved Cadmium (Cd)		2009/11/03		103	%	80 - 120
	Dissolved Chromium (Cr)		2009/11/03		96	%	80 - 120
	Dissolved Cobalt (Co)		2009/11/03		95	%	80 - 120
	Dissolved Copper (Cu)		2009/11/03		95	%	80 - 120
	Dissolved Lead (Pb)		2009/11/03		100	%	80 - 120
	Dissolved Molybdenum (Mo)		2009/11/03		108	%	80 - 120
	Dissolved Nickel (Ni)		2009/11/03		96	%	80 - 120
Dissolved Selenium (Se)	2009/11/03		110	%	80 - 120		
Dissolved Silver (Ag)	2009/11/03		78 (4)	%	80 - 120		
Dissolved Sodium (Na)	2009/11/03		NC	%	80 - 120		
Dissolved Thallium (Tl)	2009/11/03		100	%	80 - 120		
Dissolved Vanadium (V)	2009/11/03		98	%	80 - 120		
Dissolved Zinc (Zn)	2009/11/03		98	%	80 - 120		
Spiked Blank	Dissolved Antimony (Sb)	2009/11/03		101	%	90 - 110	
	Dissolved Arsenic (As)	2009/11/03		99	%	90 - 110	
	Dissolved Barium (Ba)	2009/11/03		101	%	90 - 110	
	Dissolved Beryllium (Be)	2009/11/03		103	%	90 - 110	
	Dissolved Boron (B)	2009/11/03		100	%	90 - 110	
	Dissolved Cadmium (Cd)	2009/11/03		100	%	90 - 110	
	Dissolved Chromium (Cr)	2009/11/03		97	%	90 - 110	
	Dissolved Cobalt (Co)	2009/11/03		95	%	90 - 110	
	Dissolved Copper (Cu)	2009/11/03		96	%	90 - 110	
	Dissolved Lead (Pb)	2009/11/03		99	%	90 - 110	
	Dissolved Molybdenum (Mo)	2009/11/03		101	%	90 - 110	
	Dissolved Nickel (Ni)	2009/11/03		97	%	90 - 110	
	Dissolved Selenium (Se)	2009/11/03		101	%	90 - 110	
Dissolved Silver (Ag)	2009/11/03		99	%	90 - 110		
Dissolved Sodium (Na)	2009/11/03		98	%	90 - 110		
Dissolved Thallium (Tl)	2009/11/03		99	%	90 - 110		
Dissolved Vanadium (V)	2009/11/03		96	%	90 - 110		
Dissolved Zinc (Zn)	2009/11/03		99	%	90 - 110		
Method Blank	Dissolved Antimony (Sb)	2009/11/03		ND, RDL=0.5		ug/L	
	Dissolved Arsenic (As)	2009/11/03		ND, RDL=1		ug/L	
	Dissolved Barium (Ba)	2009/11/03		ND, RDL=5		ug/L	
	Dissolved Beryllium (Be)	2009/11/03		ND, RDL=0.5		ug/L	
	Dissolved Boron (B)	2009/11/03		ND, RDL=10		ug/L	
	Dissolved Cadmium (Cd)	2009/11/03		ND, RDL=0.1		ug/L	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E3687

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1998295 HRE	Method Blank	Dissolved Chromium (Cr)	2009/11/03	ND, RDL=5		ug/L	
		Dissolved Cobalt (Co)	2009/11/03	ND, RDL=0.5		ug/L	
		Dissolved Copper (Cu)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Lead (Pb)	2009/11/03	ND, RDL=0.5		ug/L	
		Dissolved Molybdenum (Mo)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Nickel (Ni)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Selenium (Se)	2009/11/03	ND, RDL=2		ug/L	
		Dissolved Silver (Ag)	2009/11/03	ND, RDL=0.1		ug/L	
		Dissolved Sodium (Na)	2009/11/03	ND, RDL=100		ug/L	
		Dissolved Thallium (Tl)	2009/11/03	ND, RDL=0.05		ug/L	
		Dissolved Vanadium (V)	2009/11/03	ND, RDL=1		ug/L	
		Dissolved Zinc (Zn)	2009/11/03	ND, RDL=5		ug/L	
	RPD	Dissolved Antimony (Sb)	2009/11/03	NC		%	25
		Dissolved Arsenic (As)	2009/11/03	NC		%	25
		Dissolved Barium (Ba)	2009/11/03	0.5		%	25
		Dissolved Beryllium (Be)	2009/11/03	NC		%	25
		Dissolved Boron (B)	2009/11/03	NC		%	25
		Dissolved Cadmium (Cd)	2009/11/03	NC		%	25
		Dissolved Chromium (Cr)	2009/11/03	NC		%	25
		Dissolved Cobalt (Co)	2009/11/03	NC		%	25
		Dissolved Copper (Cu)	2009/11/03	NC		%	25
		Dissolved Lead (Pb)	2009/11/03	NC		%	25
		Dissolved Molybdenum (Mo)	2009/11/03	NC		%	25
		Dissolved Nickel (Ni)	2009/11/03	NC		%	25
		Dissolved Selenium (Se)	2009/11/03	NC		%	25
		Dissolved Silver (Ag)	2009/11/03	NC		%	25
		Dissolved Sodium (Na)	2009/11/03	3.6		%	25
		Dissolved Thallium (Tl)	2009/11/03	NC		%	25
		Dissolved Vanadium (V)	2009/11/03	NC		%	25
		Dissolved Zinc (Zn)	2009/11/03	NC		%	25

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.

(1) Duplicate results exceeded RPD acceptance criteria. The variability in the results for this analyte may be more pronounced.
 (2) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.
 (3) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte. This has been evaluated being due to a matrix effect associated with this particular sample and not the entire batch.
 (4) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

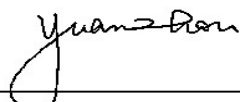
Validation Signature Page

Maxxam Job #: A9E3687

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



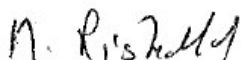
MAMDOUH SALIB, Analyst, Hydrocarbons



YUAN ZHOU, gc/ms Technician



BRAD NEWMAN, Scientific Specialist



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. SCC and CALA have approved this reporting process and electronic report format.

Your P.O. #: 111853
 Your Project #: TTC SHEPPARD

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/11/06

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E5304

Received: 2009/10/28, 16:47

Sample Matrix: Soil
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
MOISTURE	5	N/A	2009/10/31	CAM SOP-00445	McKeague 2nd ed 1978
OC Pesticides (Selected) & PCB (†)	5	2009/10/30	2009/10/31	CAM SOP-00307	SW846 8081, 8082

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

(1) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

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

MARIJANE CRUZ, Project Manager
 Email: Marijane.Cruz@maxxamanalytics.com
 Phone# (905) 817-5756

=====
 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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page
 Total cover pages: 1

Maxxam Job #: A9E5304
 Report Date: 2009/11/06

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EE3264	EE3265	EE3266	EE3267		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	GS4	RDL	QC Batch

Inorganics							
Moisture	%	20	18	12	21	0.2	1996592

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		EE3268		
Sampling Date		2009/10/28 09:00		
	Units	GS5	RDL	QC Batch

Inorganics				
Moisture	%	20	0.2	1996592

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E5304
 Report Date: 2009/11/06

 AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3264	EE3265	EE3266		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	RDL	QC Batch

Pesticides & Herbicides						
Aroclor 1262	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1268	ug/g	ND	ND	ND	0.02	1995767
Aldrin	ug/g	ND	ND	ND	0.002	1995767
a-BHC	ug/g	ND	ND	ND	0.002	1995767
b-BHC	ug/g	ND	ND	ND	0.002	1995767
d-BHC	ug/g	ND	ND	ND	0.002	1995767
a-Chlordane	ug/g	ND	ND	ND	0.002	1995767
g-Chlordane	ug/g	ND	ND	ND	0.002	1995767
Chlordane (Total)	ug/g	ND	ND	ND	0.002	1995767
o,p-DDD	ug/g	ND	ND	ND	0.002	1995767
p,p-DDD	ug/g	ND	ND	ND	0.002	1995767
o,p-DDD + p,p-DDD	ug/g	ND	ND	ND	0.002	1995767
o,p-DDE	ug/g	ND	ND	ND	0.002	1995767
p,p-DDE	ug/g	ND	ND	ND	0.002	1995767
o,p-DDE + p,p-DDE	ug/g	ND	ND	ND	0.002	1995767
o,p-DDT	ug/g	ND	ND	ND	0.002	1995767
p,p-DDT	ug/g	ND	ND	ND	0.002	1995767
o,p-DDT + p,p-DDT	ug/g	ND	ND	ND	0.002	1995767
DDT+ Metabolites	ug/g	ND	ND	ND	0.002	1995767
Dieldrin	ug/g	ND	ND	ND	0.002	1995767
Endosulfan I	ug/g	ND	ND	ND	0.002	1995767
Endosulfan II	ug/g	ND	ND	ND	0.002	1995767
Endosulfan sulfate	ug/g	ND	ND	ND	0.002	1995767
Total Endosulfan	ug/g	ND	ND	ND	0.002	1995767
Endrin	ug/g	ND	ND	ND	0.002	1995767
Endrin aldehyde	ug/g	ND	ND	ND	0.002	1995767
Endrin ketone	ug/g	ND	ND	ND	0.002	1995767
Heptachlor	ug/g	ND	ND	ND	0.002	1995767
Heptachlor epoxide	ug/g	ND	ND	ND	0.002	1995767
Hexachlorobenzene	ug/g	ND	ND	ND	0.002	1995767
Lindane	ug/g	ND	ND	ND	0.002	1995767

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E5304
 Report Date: 2009/11/06

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3264	EE3265	EE3266		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	RDL	QC Batch
Methoxychlor	ug/g	ND	ND	ND	0.008	1995767
Mirex	ug/g	ND	ND	ND	0.002	1995767
Octachlorostyrene	ug/g	ND	ND	ND	0.002	1995767
Total PCB	ug/g	ND	ND	ND	0.03	1995767
Aroclor 1016	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1221	ug/g	ND	ND	ND	0.03	1995767
Aroclor 1232	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1242	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1248	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1254	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1260	ug/g	ND	ND	ND	0.02	1995767
Toxaphene	ug/g	ND	ND	ND	0.08	1995767
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	59	43	40		1995767
Decachlorobiphenyl	%	103	109	111		1995767
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E5304
 Report Date: 2009/11/06

 AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3267	EE3268		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00		
	Units	GS4	GS5	RDL	QC Batch

Pesticides & Herbicides					
Aroclor 1262	ug/g	ND	ND	0.02	1995767
Aroclor 1268	ug/g	ND	ND	0.02	1995767
Aldrin	ug/g	ND	ND	0.002	1995767
a-BHC	ug/g	ND	ND	0.002	1995767
b-BHC	ug/g	ND	ND	0.002	1995767
d-BHC	ug/g	ND	ND	0.002	1995767
a-Chlordane	ug/g	ND	ND	0.002	1995767
g-Chlordane	ug/g	ND	ND	0.002	1995767
Chlordane (Total)	ug/g	ND	ND	0.002	1995767
o,p-DDD	ug/g	ND	ND	0.002	1995767
p,p-DDD	ug/g	ND	ND	0.002	1995767
o,p-DDD + p,p-DDD	ug/g	ND	ND	0.002	1995767
o,p-DDE	ug/g	ND	ND	0.002	1995767
p,p-DDE	ug/g	ND	ND	0.002	1995767
o,p-DDE + p,p-DDE	ug/g	ND	ND	0.002	1995767
o,p-DDT	ug/g	ND	ND	0.002	1995767
p,p-DDT	ug/g	ND	ND	0.002	1995767
o,p-DDT + p,p-DDT	ug/g	ND	ND	0.002	1995767
DDT+ Metabolites	ug/g	ND	ND	0.002	1995767
Dieldrin	ug/g	ND	ND	0.002	1995767
Endosulfan I	ug/g	ND	ND	0.002	1995767
Endosulfan II	ug/g	ND	ND	0.002	1995767
Endosulfan sulfate	ug/g	ND	ND	0.002	1995767
Total Endosulfan	ug/g	ND	ND	0.002	1995767
Endrin	ug/g	ND	ND	0.002	1995767
Endrin aldehyde	ug/g	ND	ND	0.002	1995767
Endrin ketone	ug/g	ND	ND	0.002	1995767
Heptachlor	ug/g	ND	ND	0.002	1995767
Heptachlor epoxide	ug/g	ND	ND	0.002	1995767
Hexachlorobenzene	ug/g	ND	ND	0.002	1995767
Lindane	ug/g	ND	ND	0.002	1995767

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E5304
 Report Date: 2009/11/06

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3267	EE3268		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00		
	Units	GS4	GS5	RDL	QC Batch
Methoxychlor	ug/g	ND	ND	0.008	1995767
Mirex	ug/g	ND	ND	0.002	1995767
Octachlorostyrene	ug/g	ND	ND	0.002	1995767
Total PCB	ug/g	ND	ND	0.03	1995767
Aroclor 1016	ug/g	ND	ND	0.02	1995767
Aroclor 1221	ug/g	ND	ND	0.03	1995767
Aroclor 1232	ug/g	ND	ND	0.02	1995767
Aroclor 1242	ug/g	ND	ND	0.02	1995767
Aroclor 1248	ug/g	ND	ND	0.02	1995767
Aroclor 1254	ug/g	ND	ND	0.02	1995767
Aroclor 1260	ug/g	ND	ND	0.02	1995767
Toxaphene	ug/g	ND	ND	0.08	1995767
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	%	64	62		1995767
Decachlorobiphenyl	%	104	102		1995767
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E5304
Report Date: 2009/11/06

AECOM Canada Ltd
Client Project #: TTC SHEPPARD

Your P.O. #: 111853

Package 1	7.0°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.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report
 Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1995767 MAK	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2009/10/31		66	%	40 - 130		
		Decachlorobiphenyl	2009/10/31		110	%	40 - 130		
		Aldrin	2009/10/31		90	%	40 - 130		
		a-BHC	2009/10/31		78	%	40 - 130		
		b-BHC	2009/10/31		93	%	40 - 130		
		d-BHC	2009/10/31		93	%	40 - 130		
		a-Chlordane	2009/10/31		108	%	40 - 130		
		g-Chlordane	2009/10/31		101	%	40 - 130		
		o,p-DDD	2009/10/31		86	%	40 - 130		
		p,p-DDD	2009/10/31		48	%	40 - 130		
		o,p-DDE	2009/10/31		114	%	40 - 130		
		p,p-DDE	2009/10/31		86	%	40 - 130		
		o,p-DDT	2009/10/31		107	%	40 - 130		
		p,p-DDT	2009/10/31		59	%	40 - 130		
		Dieldrin	2009/10/31		101	%	40 - 130		
		Endosulfan I	2009/10/31		95	%	40 - 130		
		Endosulfan II	2009/10/31		103	%	40 - 130		
		Endosulfan sulfate	2009/10/31		124	%	40 - 130		
		Endrin	2009/10/31		94	%	40 - 130		
		Endrin aldehyde	2009/10/31		79	%	40 - 130		
		Endrin ketone	2009/10/31		115	%	40 - 130		
		Heptachlor	2009/10/31		86	%	40 - 130		
		Heptachlor epoxide	2009/10/31		88	%	40 - 130		
		Hexachlorobenzene	2009/10/31		107	%	20 - 130		
		Lindane	2009/10/31		80	%	40 - 130		
		Methoxychlor	2009/10/31		110	%	40 - 130		
		Mirex	2009/10/31		107	%	40 - 130		
		Octachlorostyrene	2009/10/31		104	%	40 - 130		
		Spiked Blank		2,4,5,6-Tetrachloro-m-xylene	2009/10/31		73	%	40 - 130
				Decachlorobiphenyl	2009/10/31		106	%	40 - 130
				Aldrin	2009/10/31		72	%	40 - 130
				a-BHC	2009/10/31		74	%	40 - 130
				b-BHC	2009/10/31		86	%	40 - 130
				d-BHC	2009/10/31		82	%	40 - 130
				a-Chlordane	2009/10/31		87	%	40 - 130
				g-Chlordane	2009/10/31		84	%	40 - 130
				o,p-DDD	2009/10/31		102	%	40 - 130
				p,p-DDD	2009/10/31		106	%	40 - 130
				o,p-DDE	2009/10/31		87	%	40 - 130
				p,p-DDE	2009/10/31		88	%	40 - 130
				o,p-DDT	2009/10/31		92	%	40 - 130
				p,p-DDT	2009/10/31		96	%	40 - 130
				Dieldrin	2009/10/31		80	%	40 - 130
				Endosulfan I	2009/10/31		84	%	40 - 130
				Endosulfan II	2009/10/31		107	%	40 - 130
Endosulfan sulfate	2009/10/31				110	%	40 - 130		
Endrin	2009/10/31				86	%	40 - 130		
Endrin aldehyde	2009/10/31				85	%	40 - 130		
Endrin ketone	2009/10/31				116	%	40 - 130		
Heptachlor	2009/10/31				74	%	40 - 130		
Heptachlor epoxide	2009/10/31				70	%	40 - 130		
Hexachlorobenzene	2009/10/31				93	%	20 - 130		
Lindane	2009/10/31				68	%	40 - 130		
Methoxychlor	2009/10/31				111	%	40 - 130		
Mirex	2009/10/31				93	%	40 - 130		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1995767 MAK	Spiked Blank	Octachlorostyrene	2009/10/31		76	%	40 - 130
	RPD	Total PCB	2009/10/31	NC		%	50
		Aroclor 1242	2009/10/31	NC		%	50
		Toxaphene	2009/10/31	NC		%	50
	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2009/10/31		97	%	40 - 130
		Decachlorobiphenyl	2009/10/31		105	%	40 - 130
		Aroclor 1262	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1268	2009/10/31	ND, RDL=0.015		ug/g	
		Aldrin	2009/10/31	ND, RDL=0.002		ug/g	
		a-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		b-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		d-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		a-Chlordane	2009/10/31	ND, RDL=0.002		ug/g	
		g-Chlordane	2009/10/31	ND, RDL=0.002		ug/g	
		Chlordane (Total)	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDD + p,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDE + p,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDT + p,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		DDT+ Metabolites	2009/10/31	ND, RDL=0.002		ug/g	
		Dieldrin	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan I	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan II	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan sulfate	2009/10/31	ND, RDL=0.002		ug/g	
		Total Endosulfan	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin aldehyde	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin ketone	2009/10/31	ND, RDL=0.002		ug/g	
		Heptachlor	2009/10/31	ND, RDL=0.002		ug/g	
		Heptachlor epoxide	2009/10/31	ND, RDL=0.002		ug/g	
		Hexachlorobenzene	2009/10/31	ND, RDL=0.002		ug/g	
		Lindane	2009/10/31	ND, RDL=0.002		ug/g	
		Methoxychlor	2009/10/31	ND, RDL=0.008		ug/g	
		Mirex	2009/10/31	ND, RDL=0.002		ug/g	
		Octachlorostyrene	2009/10/31	ND, RDL=0.002		ug/g	
		Total PCB	2009/10/31	ND, RDL=0.03		ug/g	
		Aroclor 1016	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1221	2009/10/31	ND, RDL=0.03		ug/g	
		Aroclor 1232	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1242	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1248	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1254	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1260	2009/10/31	ND, RDL=0.015		ug/g	
		Toxaphene	2009/10/31	ND, RDL=0.08		ug/g	
	RPD	Aldrin	2009/10/31	NC		%	50
		a-Chlordane	2009/10/31	NC		%	50
		g-Chlordane	2009/10/31	NC		%	50
		Chlordane (Total)	2009/10/31	NC		%	50
		o,p-DDD	2009/10/31	NC		%	50
		p,p-DDD	2009/10/31	NC		%	50

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1995767 MAK	RPD	o,p-DDD + p,p-DDD	2009/10/31	NC		%	50
		o,p-DDE	2009/10/31	NC		%	50
		p,p-DDE	2009/10/31	NC		%	50
		o,p-DDE + p,p-DDE	2009/10/31	NC		%	50
		o,p-DDT	2009/10/31	NC		%	50
		p,p-DDT	2009/10/31	NC		%	50
		o,p-DDT + p,p-DDT	2009/10/31	NC		%	50
		Dieldrin	2009/10/31	NC		%	50
		Endosulfan I	2009/10/31	NC		%	50
		Endosulfan II	2009/10/31	NC		%	50
		Total Endosulfan	2009/10/31	NC		%	50
		Endrin	2009/10/31	NC		%	50
		Heptachlor	2009/10/31	NC		%	50
		Heptachlor epoxide	2009/10/31	NC		%	50
		Lindane	2009/10/31	NC		%	50
		Methoxychlor	2009/10/31	NC		%	50
1996592 GKL	RPD	Moisture	2009/10/31	2.8		%	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.

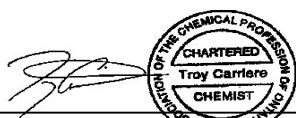
Validation Signature Page

Maxxam Job #: A9E5304

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



CHARLES ANCKER, B.Sc., M.Sc., C.Chem, Senior Analyst



TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist

=====

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. SCC and CALA have approved this reporting process and electronic report format.

Your P.O. #: 111853
 Your Project #: TTC SHEPPARD

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/11/10

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

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E5304

Received: 2009/10/28, 16:47

Sample Matrix: Soil
 # Samples Received: 5

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
MOISTURE	5	N/A	2009/10/31	CAM SOP-00445	McKeague 2nd ed 1978
OC Pesticides (Selected) & PCB (g)	5	2009/10/30	2009/10/31	CAM SOP-00307	SW846 8081, 8082

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

(1) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key

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

MARIJANE CRUZ, Project Manager
 Email: Marijane.Cruz@maxxamanalytics.com
 Phone# (905) 817-5756

=====
 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. SCC and CALA have approved this reporting process and electronic report format.

Your P.O. #: 111853
Your Project #: TTC SHEPPARD

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2009/11/10

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

CERTIFICATE OF ANALYSIS

-2-

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Page 2 of 12

Maxxam Job #: A9E5304
 Report Date: 2009/11/10

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

RESULTS OF ANALYSES OF SOIL

Maxxam ID		EE3264	EE3265	EE3266	EE3267		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	GS4	RDL	QC Batch

Inorganics							
Moisture	%	20	18	12	21	0.2	1996592

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		EE3268		
Sampling Date		2009/10/28 09:00		
	Units	GS5	RDL	QC Batch

Inorganics				
Moisture	%	20	0.2	1996592

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E5304
 Report Date: 2009/11/10

 AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3264	EE3265	EE3266		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	RDL	QC Batch

Pesticides & Herbicides						
Aroclor 1262	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1268	ug/g	ND	ND	ND	0.02	1995767
Aldrin	ug/g	ND	ND	ND	0.002	1995767
a-BHC	ug/g	ND	ND	ND	0.002	1995767
b-BHC	ug/g	ND	ND	ND	0.002	1995767
d-BHC	ug/g	ND	ND	ND	0.002	1995767
a-Chlordane	ug/g	ND	ND	ND	0.002	1995767
g-Chlordane	ug/g	ND	ND	ND	0.002	1995767
Chlordane (Total)	ug/g	ND	ND	ND	0.002	1995767
o,p-DDD	ug/g	ND	ND	ND	0.002	1995767
p,p-DDD	ug/g	ND	ND	ND	0.002	1995767
o,p-DDD + p,p-DDD	ug/g	ND	ND	ND	0.002	1995767
o,p-DDE	ug/g	ND	ND	ND	0.002	1995767
p,p-DDE	ug/g	ND	ND	ND	0.002	1995767
o,p-DDE + p,p-DDE	ug/g	ND	ND	ND	0.002	1995767
o,p-DDT	ug/g	ND	ND	ND	0.002	1995767
p,p-DDT	ug/g	ND	ND	ND	0.002	1995767
o,p-DDT + p,p-DDT	ug/g	ND	ND	ND	0.002	1995767
DDT+ Metabolites	ug/g	ND	ND	ND	0.002	1995767
Dieldrin	ug/g	ND	ND	ND	0.002	1995767
Endosulfan I	ug/g	ND	ND	ND	0.002	1995767
Endosulfan II	ug/g	ND	ND	ND	0.002	1995767
Endosulfan sulfate	ug/g	ND	ND	ND	0.002	1995767
Total Endosulfan	ug/g	ND	ND	ND	0.002	1995767
Endrin	ug/g	ND	ND	ND	0.002	1995767
Endrin aldehyde	ug/g	ND	ND	ND	0.002	1995767
Endrin ketone	ug/g	ND	ND	ND	0.002	1995767
Heptachlor	ug/g	ND	ND	ND	0.002	1995767
Heptachlor epoxide	ug/g	ND	ND	ND	0.002	1995767
Hexachlorobenzene	ug/g	ND	ND	ND	0.002	1995767
Lindane	ug/g	ND	ND	ND	0.002	1995767

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E5304
 Report Date: 2009/11/10

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3264	EE3265	EE3266		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00	2009/10/28 09:00		
	Units	GS1	GS2	GS3	RDL	QC Batch
Methoxychlor	ug/g	ND	ND	ND	0.008	1995767
Mirex	ug/g	ND	ND	ND	0.002	1995767
Octachlorostyrene	ug/g	ND	ND	ND	0.002	1995767
Total PCB	ug/g	ND	ND	ND	0.03	1995767
Aroclor 1016	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1221	ug/g	ND	ND	ND	0.03	1995767
Aroclor 1232	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1242	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1248	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1254	ug/g	ND	ND	ND	0.02	1995767
Aroclor 1260	ug/g	ND	ND	ND	0.02	1995767
Toxaphene	ug/g	ND	ND	ND	0.08	1995767
Surrogate Recovery (%)						
2,4,5,6-Tetrachloro-m-xylene	%	59	43	40		1995767
Decachlorobiphenyl	%	103	109	111		1995767
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A9E5304
 Report Date: 2009/11/10

 AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3267	EE3268		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00		
	Units	GS4	GS5	RDL	QC Batch

Pesticides & Herbicides					
Aroclor 1262	ug/g	ND	ND	0.02	1995767
Aroclor 1268	ug/g	ND	ND	0.02	1995767
Aldrin	ug/g	ND	ND	0.002	1995767
a-BHC	ug/g	ND	ND	0.002	1995767
b-BHC	ug/g	ND	ND	0.002	1995767
d-BHC	ug/g	ND	ND	0.002	1995767
a-Chlordane	ug/g	ND	ND	0.002	1995767
g-Chlordane	ug/g	ND	ND	0.002	1995767
Chlordane (Total)	ug/g	ND	ND	0.002	1995767
o,p-DDD	ug/g	ND	ND	0.002	1995767
p,p-DDD	ug/g	ND	ND	0.002	1995767
o,p-DDD + p,p-DDD	ug/g	ND	ND	0.002	1995767
o,p-DDE	ug/g	ND	ND	0.002	1995767
p,p-DDE	ug/g	ND	ND	0.002	1995767
o,p-DDE + p,p-DDE	ug/g	ND	ND	0.002	1995767
o,p-DDT	ug/g	ND	ND	0.002	1995767
p,p-DDT	ug/g	ND	ND	0.002	1995767
o,p-DDT + p,p-DDT	ug/g	ND	ND	0.002	1995767
DDT+ Metabolites	ug/g	ND	ND	0.002	1995767
Dieldrin	ug/g	ND	ND	0.002	1995767
Endosulfan I	ug/g	ND	ND	0.002	1995767
Endosulfan II	ug/g	ND	ND	0.002	1995767
Endosulfan sulfate	ug/g	ND	ND	0.002	1995767
Total Endosulfan	ug/g	ND	ND	0.002	1995767
Endrin	ug/g	ND	ND	0.002	1995767
Endrin aldehyde	ug/g	ND	ND	0.002	1995767
Endrin ketone	ug/g	ND	ND	0.002	1995767
Heptachlor	ug/g	ND	ND	0.002	1995767
Heptachlor epoxide	ug/g	ND	ND	0.002	1995767
Hexachlorobenzene	ug/g	ND	ND	0.002	1995767
Lindane	ug/g	ND	ND	0.002	1995767
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E5304
 Report Date: 2009/11/10

AECOM Canada Ltd
 Client Project #: TTC SHEPPARD

Your P.O. #: 111853

ORGANOCHLORINATED PESTICIDES BY GC-ECD (SOIL)

Maxxam ID		EE3267	EE3268		
Sampling Date		2009/10/28 09:00	2009/10/28 09:00		
	Units	GS4	GS5	RDL	QC Batch
Methoxychlor	ug/g	ND	ND	0.008	1995767
Mirex	ug/g	ND	ND	0.002	1995767
Octachlorostyrene	ug/g	ND	ND	0.002	1995767
Total PCB	ug/g	ND	ND	0.03	1995767
Aroclor 1016	ug/g	ND	ND	0.02	1995767
Aroclor 1221	ug/g	ND	ND	0.03	1995767
Aroclor 1232	ug/g	ND	ND	0.02	1995767
Aroclor 1242	ug/g	ND	ND	0.02	1995767
Aroclor 1248	ug/g	ND	ND	0.02	1995767
Aroclor 1254	ug/g	ND	ND	0.02	1995767
Aroclor 1260	ug/g	ND	ND	0.02	1995767
Toxaphene	ug/g	ND	ND	0.08	1995767
Surrogate Recovery (%)					
2,4,5,6-Tetrachloro-m-xylene	%	64	62		1995767
Decachlorobiphenyl	%	104	102		1995767
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: A9E5304
Report Date: 2009/11/10

AECOM Canada Ltd
Client Project #: TTC SHEPPARD

Your P.O. #: 111853

Package 1	7.0°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.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report
 Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
1995767 MAK	Matrix Spike	2,4,5,6-Tetrachloro-m-xylene	2009/10/31		66	%	40 - 130		
		Decachlorobiphenyl	2009/10/31		110	%	40 - 130		
		Aldrin	2009/10/31		90	%	40 - 130		
		a-BHC	2009/10/31		78	%	40 - 130		
		b-BHC	2009/10/31		93	%	40 - 130		
		d-BHC	2009/10/31		93	%	40 - 130		
		a-Chlordane	2009/10/31		108	%	40 - 130		
		g-Chlordane	2009/10/31		101	%	40 - 130		
		o,p-DDD	2009/10/31		86	%	40 - 130		
		p,p-DDD	2009/10/31		48	%	40 - 130		
		o,p-DDE	2009/10/31		114	%	40 - 130		
		p,p-DDE	2009/10/31		86	%	40 - 130		
		o,p-DDT	2009/10/31		107	%	40 - 130		
		p,p-DDT	2009/10/31		59	%	40 - 130		
		Dieldrin	2009/10/31		101	%	40 - 130		
		Endosulfan I	2009/10/31		95	%	40 - 130		
		Endosulfan II	2009/10/31		103	%	40 - 130		
		Endosulfan sulfate	2009/10/31		124	%	40 - 130		
		Endrin	2009/10/31		94	%	40 - 130		
		Endrin aldehyde	2009/10/31		79	%	40 - 130		
		Endrin ketone	2009/10/31		115	%	40 - 130		
		Heptachlor	2009/10/31		86	%	40 - 130		
		Heptachlor epoxide	2009/10/31		88	%	40 - 130		
		Hexachlorobenzene	2009/10/31		107	%	20 - 130		
		Lindane	2009/10/31		80	%	40 - 130		
		Methoxychlor	2009/10/31		110	%	40 - 130		
		Mirex	2009/10/31		107	%	40 - 130		
		Octachlorostyrene	2009/10/31		104	%	40 - 130		
		Spiked Blank	Spiked Blank	2,4,5,6-Tetrachloro-m-xylene	2009/10/31		73	%	40 - 130
				Decachlorobiphenyl	2009/10/31		106	%	40 - 130
				Aldrin	2009/10/31		72	%	40 - 130
				a-BHC	2009/10/31		74	%	40 - 130
				b-BHC	2009/10/31		86	%	40 - 130
				d-BHC	2009/10/31		82	%	40 - 130
				a-Chlordane	2009/10/31		87	%	40 - 130
				g-Chlordane	2009/10/31		84	%	40 - 130
				o,p-DDD	2009/10/31		102	%	40 - 130
				p,p-DDD	2009/10/31		106	%	40 - 130
				o,p-DDE	2009/10/31		87	%	40 - 130
				p,p-DDE	2009/10/31		88	%	40 - 130
				o,p-DDT	2009/10/31		92	%	40 - 130
				p,p-DDT	2009/10/31		96	%	40 - 130
				Dieldrin	2009/10/31		80	%	40 - 130
				Endosulfan I	2009/10/31		84	%	40 - 130
				Endosulfan II	2009/10/31		107	%	40 - 130
Endosulfan sulfate	2009/10/31				110	%	40 - 130		
Endrin	2009/10/31				86	%	40 - 130		
Endrin aldehyde	2009/10/31				85	%	40 - 130		
Endrin ketone	2009/10/31				116	%	40 - 130		
Heptachlor	2009/10/31				74	%	40 - 130		
Heptachlor epoxide	2009/10/31				70	%	40 - 130		
Hexachlorobenzene	2009/10/31				93	%	20 - 130		
Lindane	2009/10/31				68	%	40 - 130		
Methoxychlor	2009/10/31				111	%	40 - 130		
Mirex	2009/10/31				93	%	40 - 130		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1995767 MAK	Spiked Blank	Octachlorostyrene	2009/10/31		76	%	40 - 130
	RPD	Total PCB	2009/10/31	NC		%	50
		Aroclor 1242	2009/10/31	NC		%	50
		Toxaphene	2009/10/31	NC		%	50
	Method Blank	2,4,5,6-Tetrachloro-m-xylene	2009/10/31		97	%	40 - 130
		Decachlorobiphenyl	2009/10/31		105	%	40 - 130
		Aroclor 1262	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1268	2009/10/31	ND, RDL=0.015		ug/g	
		Aldrin	2009/10/31	ND, RDL=0.002		ug/g	
		a-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		b-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		d-BHC	2009/10/31	ND, RDL=0.002		ug/g	
		a-Chlordane	2009/10/31	ND, RDL=0.002		ug/g	
		g-Chlordane	2009/10/31	ND, RDL=0.002		ug/g	
		Chlordane (Total)	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDD + p,p-DDD	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDE + p,p-DDE	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		p,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		o,p-DDT + p,p-DDT	2009/10/31	ND, RDL=0.002		ug/g	
		DDT+ Metabolites	2009/10/31	ND, RDL=0.002		ug/g	
		Dieldrin	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan I	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan II	2009/10/31	ND, RDL=0.002		ug/g	
		Endosulfan sulfate	2009/10/31	ND, RDL=0.002		ug/g	
		Total Endosulfan	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin aldehyde	2009/10/31	ND, RDL=0.002		ug/g	
		Endrin ketone	2009/10/31	ND, RDL=0.002		ug/g	
		Heptachlor	2009/10/31	ND, RDL=0.002		ug/g	
		Heptachlor epoxide	2009/10/31	ND, RDL=0.002		ug/g	
		Hexachlorobenzene	2009/10/31	ND, RDL=0.002		ug/g	
		Lindane	2009/10/31	ND, RDL=0.002		ug/g	
		Methoxychlor	2009/10/31	ND, RDL=0.008		ug/g	
		Mirex	2009/10/31	ND, RDL=0.002		ug/g	
		Octachlorostyrene	2009/10/31	ND, RDL=0.002		ug/g	
		Total PCB	2009/10/31	ND, RDL=0.03		ug/g	
		Aroclor 1016	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1221	2009/10/31	ND, RDL=0.03		ug/g	
		Aroclor 1232	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1242	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1248	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1254	2009/10/31	ND, RDL=0.015		ug/g	
		Aroclor 1260	2009/10/31	ND, RDL=0.015		ug/g	
		Toxaphene	2009/10/31	ND, RDL=0.08		ug/g	
	RPD	Aldrin	2009/10/31	NC		%	50
		a-Chlordane	2009/10/31	NC		%	50
		g-Chlordane	2009/10/31	NC		%	50
		Chlordane (Total)	2009/10/31	NC		%	50
		o,p-DDD	2009/10/31	NC		%	50
		p,p-DDD	2009/10/31	NC		%	50

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: TTC SHEPPARD
 P.O. #: 111853
 Project name:

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E5304

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
1995767 MAK	RPD	o,p-DDD + p,p-DDD	2009/10/31	NC		%	50
		o,p-DDE	2009/10/31	NC		%	50
		p,p-DDE	2009/10/31	NC		%	50
		o,p-DDE + p,p-DDE	2009/10/31	NC		%	50
		o,p-DDT	2009/10/31	NC		%	50
		p,p-DDT	2009/10/31	NC		%	50
		o,p-DDT + p,p-DDT	2009/10/31	NC		%	50
		Dieldrin	2009/10/31	NC		%	50
		Endosulfan I	2009/10/31	NC		%	50
		Endosulfan II	2009/10/31	NC		%	50
		Total Endosulfan	2009/10/31	NC		%	50
		Endrin	2009/10/31	NC		%	50
		Heptachlor	2009/10/31	NC		%	50
		Heptachlor epoxide	2009/10/31	NC		%	50
		Lindane	2009/10/31	NC		%	50
		Methoxychlor	2009/10/31	NC		%	50
1996592 GKL	RPD	Moisture	2009/10/31	2.8		%	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.

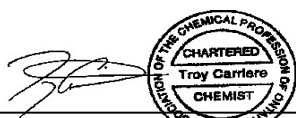
Validation Signature Page

Maxxam Job #: A9E5304

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



CHARLES ANCKER, B.Sc., M.Sc., C.Chem, Senior Analyst



TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist

=====

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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: MA9E5304
Site: TTC SHEPPARD

Attention: SUB CONTRACTOR

MAXXAM ANALYTICS INC.
CAMPOBELLO
6740 CAMPOBELLO ROAD
MISSISSAUGA, ON
CANADA L5N 2L8

Report Date: 2009/11/06

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A962088

Received: 2009/11/02, 9:10

Sample Matrix: Soil
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Moisture	1	N/A	2009/11/03	CAL SOP-00023	McKeague MSSMA 2.411
Particle Size by Sieve (Dry) Ø	1	N/A	2009/11/05	CAL SOP-00025	SSMA #47
Texture by Hydrometer	1	N/A	2009/11/05	CAL SOP-00033	MMFSPA Ch9
Texture Class	1	N/A	2009/11/05	CAL SOP-00033	MMFSPA Ch9

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

(1) Result indicates % of sample retained on the sieve.

Encryption Key

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

LINSAY DAME, Project Manager Assistant
Email: Linsay.Dame@MaxxamAnalytics.com
Phone# (403) 291-3077

=====

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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A962088
Report Date: 2009/11/06

MAXXAM ANALYTICS INC.
Client Project #: MA9E5304
Site Reference: TTC SHEPPARD

RESULTS OF CHEMICAL ANALYSES OF SOIL

Maxxam ID		R56068	R56068		
Sampling Date		2009/10/16 14:00	2009/10/16 14:00		
	Units	EE3269-01R (MW1-7)	EE3269-01R (MW1-7) Lab-Dup	RDL	QC Batch

Physical Properties					
% sand by hydrometer	%	53	N/A	2	3540943
% silt by hydrometer	%	28	N/A	2	3540943
Clay Content	%	19	N/A	2	3540943
Texture	N/A	LOAM	N/A	N/A	3532095
Moisture	%	9.4	8.8	0.3	3534808
Sieve - #4 (>4.75mm)	%	2.1	<0.2	0.2	3536987
Sieve - #10 (>2.00mm)	%	6.0	5.7	0.2	3536987
Sieve - #40 (>0.425mm)	%	10.2	11.2	0.2	3536987
Sieve - #200 (>0.075mm)	%	33.8	31.6	0.2	3536987
Sieve - Pan	%	47.9	51.4	0.2	3536987

N/A = Not Applicable
RDL = Reportable Detection Limit

Maxxam Job #: A962088
Report Date: 2009/11/06

MAXXAM ANALYTICS INC.
Client Project #: MA9E5304
Site Reference: TTC SHEPPARD

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

Results relate only to the items tested.

MAXXAM ANALYTICS INC.
Attention: SUB CONTRACTOR
Client Project #: MA9E5304
P.O. #:
Site Reference: TTC SHEPPARD

Quality Assurance Report
Maxxam Job Number: CA962088

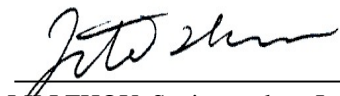
QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
3534808 RM2	RPD [R56068-01]	Moisture	2009/11/03	6.6		%	20
3536987 PP1	QC Standard	Sieve - #200 (>0.075mm)	2009/11/05		116	%	75 - 125
		Sieve - Pan	2009/11/05		93	%	89 - 111
	RPD [R56068-01]	Sieve - #4 (>4.75mm)	2009/11/05	NC		%	35
		Sieve - #10 (>2.00mm)	2009/11/05	5.3		%	35
		Sieve - #40 (>0.425mm)	2009/11/05	9.5		%	35
		Sieve - #200 (>0.075mm)	2009/11/05	6.7		%	35
		Sieve - Pan	2009/11/05	6.9		%	35
3540943 AL0	QC Standard	% sand by hydrometer	2009/11/05		102	%	75 - 125
		% silt by hydrometer	2009/11/05		90	%	75 - 125
		Clay Content	2009/11/05		110	%	75 - 125
	RPD	% sand by hydrometer	2009/11/05	4.0		%	35
		% silt by hydrometer	2009/11/05	4.0		%	35
		Clay Content	2009/11/05	4.3		%	35

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.
QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
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 #: A962088

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



LILI ZHOU, Senior analyst, Inorganic 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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 111853
 Site: TTC SHEPPARD
 Your C.O.C. #: n/a

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/11/12

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9E9643

Received: 2009/11/05, 17:39

Sample Matrix: Water
 # Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
ABN Compounds in Water by SIM GC/MS	8	2009/11/09	2009/11/12	CAM SOP-00301	EPA 8270 (modified)

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

Encryption Key

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

MARIJANE CRUZ, Project Manager
 Email: Marijane.Cruz@maxxamanalytics.com
 Phone# (905) 817-5756

=====
 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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: A9E9643
 Report Date: 2009/11/12

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		EG5074	EG5075	EG5076	EG5077		
Sampling Date							
COC Number		n/a	n/a	n/a	n/a		
	Units	MW 1	MW 2	MW 3	MW 4	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	0.1	2003757
1,2-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
1,4-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
2,3,4,6 + 2,3,4,5-Tetrachlorophenol	ug/L	ND	ND	ND	ND	1	2003757
2,3,6-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4,5-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4-Dichlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
2,4-Dimethylphenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4-Dinitrophenol	ug/L	ND	ND	ND	ND	2	2003757
2,4-Dinitrotoluene	ug/L	ND	ND	ND	ND	0.3	2003757
2-Chlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
3,3'-Dichlorobenzidine	ug/L	ND	ND	ND	ND	0.5	2003757
Bis(2-chloroethyl)ether	ug/L	ND	ND	ND	ND	0.5	2003757
Bis(2-ethylhexyl)phthalate	ug/L	11	13	4	10	1	2003757
Diethyl phthalate	ug/L	ND	ND	ND	ND	0.1	2003757
Dimethyl phthalate	ug/L	ND	ND	ND	ND	0.1	2003757
Hexachlorobenzene	ug/L	ND	ND	ND	ND	0.1	2003757
Hexachlorobutadiene	ug/L	ND	ND	ND	ND	0.1	2003757
p-Chloroaniline	ug/L	ND	ND	ND	ND	1	2003757
Pentachlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
Perylene	ug/L	0.61	ND	0.06	0.18	0.05	2003757
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	67	98	74	87		2003757
2-Fluorobiphenyl	%	88	95	100	90		2003757
2-Fluorophenol	%	39	43	38	41		2003757
D14-Terphenyl (FS)	%	109	121	123	116		2003757
D5-Nitrobenzene	%	89	84	90	83		2003757
D5-Phenol	%	31	32	32	32		2003757

ND = Not detected
 N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E9643
 Report Date: 2009/11/12

 AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Maxxam ID		EG5078	EG5079	EG5080	EG5081		
Sampling Date							
COC Number		n/a	n/a	n/a	n/a		
	Units	MW 5	MW 6	MW 7	MW 8	RDL	QC Batch

Semivolatile Organics							
1,2,4-Trichlorobenzene	ug/L	ND	ND	ND	ND	0.1	2003757
1,2-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
1,3-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
1,4-Dichlorobenzene	ug/L	ND	ND	ND	ND	0.5	2003757
2,3,4,6 + 2,3,4,5-Tetrachlorophenol	ug/L	ND	ND	ND	ND	1	2003757
2,3,6-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4,5-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4,6-Trichlorophenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4-Dichlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
2,4-Dimethylphenol	ug/L	ND	ND	ND	ND	0.5	2003757
2,4-Dinitrophenol	ug/L	ND	ND	ND	ND	2	2003757
2,4-Dinitrotoluene	ug/L	ND	ND	ND	ND	0.3	2003757
2-Chlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
3,3'-Dichlorobenzidine	ug/L	ND	ND	ND	ND	0.5	2003757
Bis(2-chloroethyl)ether	ug/L	ND	ND	ND	ND	0.5	2003757
Bis(2-ethylhexyl)phthalate	ug/L	4	3	2	10	1	2003757
Diethyl phthalate	ug/L	ND	ND	ND	ND	0.1	2003757
Dimethyl phthalate	ug/L	ND	ND	ND	ND	0.1	2003757
Hexachlorobenzene	ug/L	ND	ND	ND	ND	0.1	2003757
Hexachlorobutadiene	ug/L	ND	ND	ND	ND	0.1	2003757
p-Chloroaniline	ug/L	ND	ND	ND	ND	1	2003757
Pentachlorophenol	ug/L	ND	ND	ND	ND	0.1	2003757
Perylene	ug/L	ND	0.06	0.27	0.53	0.05	2003757
Surrogate Recovery (%)							
2,4,6-Tribromophenol	%	82	87	75	50		2003757
2-Fluorobiphenyl	%	99	102	100	81		2003757
2-Fluorophenol	%	39	38	37	27		2003757
D14-Terphenyl (FS)	%	128	130	125	123		2003757
D5-Nitrobenzene	%	89	92	89	84		2003757
D5-Phenol	%	31	31	30	23		2003757

ND = Not detected
 N/A = Not Applicable
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9E9643
Report Date: 2009/11/12

AECOM Canada Ltd
Client Project #: 111853
Project name: TTC SHEPPARD

GENERAL COMMENTS

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report
 Maxxam Job Number: MA9E9643

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2003757 MA	Spiked Blank	2,4,6-Tribromophenol	2009/11/11		98	%	10 - 130
		2-Fluorobiphenyl	2009/11/11		93	%	30 - 130
	RPD	2-Fluorophenol	2009/11/11		37	%	10 - 130
		D14-Terphenyl (FS)	2009/11/11		111	%	30 - 130
	Spiked Blank	D5-Nitrobenzene	2009/11/11		84	%	30 - 130
		D5-Phenol	2009/11/11		35	%	10 - 130
	RPD	1,2,4-Trichlorobenzene	2009/11/11		57	%	30 - 130
		1,2,4-Trichlorobenzene	2009/11/11	3.4		%	40
	Spiked Blank	1,2-Dichlorobenzene	2009/11/11		58	%	30 - 130
		RPD	1,2-Dichlorobenzene	2009/11/11	4.6		%
	Spiked Blank	1,3-Dichlorobenzene	2009/11/11		53	%	30 - 130
		RPD	1,3-Dichlorobenzene	2009/11/11	4.9		%
	Spiked Blank	1,4-Dichlorobenzene	2009/11/11		57	%	30 - 130
		RPD	1,4-Dichlorobenzene	2009/11/11	5.2		%
	Spiked Blank	2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2009/11/11		111	%	30 - 130
		RPD	2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2009/11/11	4.1		%
	Spiked Blank	2,3,6-Trichlorophenol	2009/11/11		113	%	10 - 130
		RPD	2,3,6-Trichlorophenol	2009/11/11	0.8		%
	Spiked Blank	2,4,5-Trichlorophenol	2009/11/11		100	%	10 - 130
		RPD	2,4,5-Trichlorophenol	2009/11/11	0.7		%
	Spiked Blank	2,4,6-Trichlorophenol	2009/11/11		92	%	10 - 130
		RPD	2,4,6-Trichlorophenol	2009/11/11	0.4		%
	Spiked Blank	2,4-Dichlorophenol	2009/11/11		86	%	10 - 130
		RPD	2,4-Dichlorophenol	2009/11/11	3.8		%
	Spiked Blank	2,4-Dimethylphenol	2009/11/11		64	%	10 - 130
		RPD	2,4-Dimethylphenol	2009/11/11	13.5		%
	Spiked Blank	2,4-Dinitrophenol	2009/11/11		91	%	10 - 130
		RPD	2,4-Dinitrophenol	2009/11/11	4.1		%
	Spiked Blank	2,4-Dinitrotoluene	2009/11/11		106	%	30 - 130
		RPD	2,4-Dinitrotoluene	2009/11/11	2.1		%
	Spiked Blank	2-Chlorophenol	2009/11/11		74	%	10 - 130
		RPD	2-Chlorophenol	2009/11/11	2.5		%
	Spiked Blank	3,3'-Dichlorobenzidine	2009/11/11		106	%	30 - 130
		RPD	3,3'-Dichlorobenzidine	2009/11/11	4.1		%
	Spiked Blank	Bis(2-chloroethyl)ether	2009/11/11		79	%	30 - 130
		RPD	Bis(2-chloroethyl)ether	2009/11/11	0.4		%
	Spiked Blank	Bis(2-ethylhexyl)phthalate	2009/11/11		121	%	30 - 130
		RPD	Bis(2-ethylhexyl)phthalate	2009/11/11	1.5		%
	Spiked Blank	Diethyl phthalate	2009/11/11		98	%	30 - 130
		RPD	Diethyl phthalate	2009/11/11	2.0		%
	Spiked Blank	Dimethyl phthalate	2009/11/11		94	%	30 - 130
		RPD	Dimethyl phthalate	2009/11/11	1.7		%
	Spiked Blank	Hexachlorobenzene	2009/11/11		96	%	30 - 130
		RPD	Hexachlorobenzene	2009/11/11	0.3		%
	Spiked Blank	Hexachlorobutadiene	2009/11/11		49	%	30 - 130
		RPD	Hexachlorobutadiene	2009/11/11	4.6		%
	Spiked Blank	p-Chloroaniline	2009/11/11		81	%	30 - 130
		RPD	p-Chloroaniline	2009/11/11	6.7		%
	Spiked Blank	Pentachlorophenol	2009/11/11		75	%	10 - 130
		RPD	Pentachlorophenol	2009/11/11	30.5		%
Spiked Blank	Perylene	2009/11/11		102	%	30 - 130	
	RPD	Perylene	2009/11/11	0.02		%	40
Method Blank	2,4,6-Tribromophenol	2009/11/11		90	%	10 - 130	
	2-Fluorobiphenyl	2009/11/11		86	%	30 - 130	
	2-Fluorophenol	2009/11/11		47	%	10 - 130	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9E9643


QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2003757 MA	Method Blank	D14-Terphenyl (FS)	2009/11/11		107	%	30 - 130
		D5-Nitrobenzene	2009/11/11		82	%	30 - 130
		D5-Phenol	2009/11/11		34	%	10 - 130
		1,2,4-Trichlorobenzene	2009/11/11	ND, RDL=0.1		ug/L	
		1,2-Dichlorobenzene	2009/11/11	ND, RDL=0.5		ug/L	
		1,3-Dichlorobenzene	2009/11/11	ND, RDL=0.5		ug/L	
		1,4-Dichlorobenzene	2009/11/11	ND, RDL=0.5		ug/L	
		2,3,4,6 + 2,3,4,5-Tetrachlorophenol	2009/11/11	ND, RDL=1		ug/L	
		2,3,6-Trichlorophenol	2009/11/11	ND, RDL=0.5		ug/L	
		2,4,5-Trichlorophenol	2009/11/11	ND, RDL=0.5		ug/L	
		2,4,6-Trichlorophenol	2009/11/11	ND, RDL=0.5		ug/L	
		2,4-Dichlorophenol	2009/11/11	ND, RDL=0.1		ug/L	
		2,4-Dimethylphenol	2009/11/11	ND, RDL=0.5		ug/L	
		2,4-Dinitrophenol	2009/11/11	ND, RDL=2		ug/L	
		2,4-Dinitrotoluene	2009/11/11	ND, RDL=0.3		ug/L	
		2-Chlorophenol	2009/11/11	ND, RDL=0.1		ug/L	
		3,3'-Dichlorobenzidine	2009/11/11	ND, RDL=0.5		ug/L	
		Bis(2-chloroethyl)ether	2009/11/11	ND, RDL=0.5		ug/L	
		Bis(2-ethylhexyl)phthalate	2009/11/11	ND, RDL=1		ug/L	
		Diethyl phthalate	2009/11/11	ND, RDL=0.1		ug/L	
		Dimethyl phthalate	2009/11/11	ND, RDL=0.1		ug/L	
		Hexachlorobenzene	2009/11/11	ND, RDL=0.1		ug/L	
		Hexachlorobutadiene	2009/11/11	ND, RDL=0.1		ug/L	
		p-Chloroaniline	2009/11/11	ND, RDL=1		ug/L	
		Pentachlorophenol	2009/11/11	ND, RDL=0.1		ug/L	
		Perylene	2009/11/11	ND, RDL=0.05		ug/L	

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

Validation Signature Page

Maxxam Job #: A9E9643

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



FLOYD MAYEDE, 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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 111853
 Site: TTC SHEPPARD
 Your C.O.C. #: 10674501, 106745-0

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2009/11/18

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A9F1082
Received: 2009/11/09, 16:11

Sample Matrix: Soil
 # Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Semivolatile Organic Compounds (TCLP)	1	2009/11/16	2009/11/17	CAM SOP-00301	EPA 8270 modified
Cyanide (WAD) in Leachates	1	N/A	2009/11/13	CAM SOP-00457	SM 4500 CN-I
Fluoride by ISE in Leachates	1	2009/11/13	2009/11/13	CAM SOP-00456	SM 4500FC
Mercury (TCLP Leachable) (mg/L)	1	N/A	2009/11/12	CAM SOP-00453	EPA 7470
Total Metals in TCLP Leachate by ICPMS	1	2009/11/12	2009/11/12	CAM SOP-00447	EPA 6020
Ignitability of a Sample (1)	1	2009/11/18	2009/11/18	Ont SOP-0932	EPA 1030
Nitrate(NO3) + Nitrite(NO2) in Leachate	1	N/A	2009/11/13	CAM SOP-00440	SM 4500 NO3/NO2B
Polychlorinated Biphenyl in Leachate	1	2009/11/12	2009/11/12	CAM SOP-00309	SW846 8082
TCLP - % Solids	1	2009/11/11	2009/11/12	CAM SOP-00401	EPA 1311 modified
TCLP - EXTRACTION FLUID	1	N/A	2009/11/12	CAM SOP-00401	EPA 1311 modified
TCLP-INITIAL AND FINAL PH	1	N/A	2009/11/12	CAM SOP-00401	EPA 1311 modified
TCLP Zero Headspace Extraction	1	2009/11/16	2009/11/16	CAM SOP-00430	EPA 1311 modified
VOCs in ZHE Leachates	1	2009/11/17	2009/11/17	CAM SOP 00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

(1) Ignitability is not an SCC accredited test.

Your Project #: 111853
Site: TTC SHEPPARD
Your C.O.C. #: 10674501, 106745-0

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2009/11/18

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

EMA GITEJ, Project Manager
Email: ema.gitej@maxxamanalytics.com
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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 558 TCLP VOLATILE ORGANICS (SOIL)

Maxxam ID		EH3475		
Sampling Date		2009/11/09 08:30		
COC Number		106745-0		
	Units	TCLP	RDL	QC Batch

Charge/Prep Analysis				
Amount Extracted (Wet Weight) (g)	N/A	25	N/A	2010215
Volatile Organics				
Leachable Benzene	mg/L	ND	0.01	2010634
Leachable Carbon Tetrachloride	mg/L	ND	0.01	2010634
Leachable Chlorobenzene	mg/L	ND	0.01	2010634
Leachable Chloroform	mg/L	ND	0.01	2010634
Leachable 1,2-Dichlorobenzene	mg/L	ND	0.02	2010634
Leachable 1,4-Dichlorobenzene	mg/L	ND	0.02	2010634
Leachable 1,2-Dichloroethane	mg/L	ND	0.02	2010634
Leachable 1,1-Dichloroethylene	mg/L	ND	0.01	2010634
Leachable Methylene Chloride(Dichloromethane)	mg/L	ND	0.05	2010634
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	ND	0.5	2010634
Leachable Tetrachloroethylene	mg/L	ND	0.01	2010634
Leachable Trichloroethylene	mg/L	ND	0.01	2010634
Leachable Vinyl Chloride	mg/L	ND	0.02	2010634
Surrogate Recovery (%)				
Leachable 4-Bromofluorobenzene	%	97		2010634
Leachable D4-1,2-Dichloroethane	%	101		2010634
Leachable D8-Toluene	%	99		2010634
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 558 TCLP BENZO(A)PYRENE

Maxxam ID		EH3475		
Sampling Date		2009/11/09 08:30		
COC Number		106745-0		
	Units	TCLP	RDL	QC Batch

Semivolatile Organics				
Leachable Benzo(a)pyrene	ug/L	ND	0.1	2010308
Surrogate Recovery (%)				
Leachable 2,4,6-Tribromophenol	%	88		2010308
Leachable 2-Fluorobiphenyl	%	75		2010308
Leachable 2-Fluorophenol	%	30		2010308
Leachable D14-Terphenyl (FS)	%	102		2010308
Leachable D5-Nitrobenzene	%	84		2010308
Leachable D5-Phenol	%	25		2010308

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 558 TCLP INORGANICS PACKAGE (SOIL)

Maxxam ID		EH3475		
Sampling Date		2009/11/09 08:30		
COC Number		106745-0		
	Units	TCLP	RDL	QC Batch

Inorganics				
Leachable Fluoride (F-)	mg/L	0.2	0.1	2008216
Leachable Free Cyanide	mg/L	ND	0.002	2008224
Leachable Nitrite (N)	mg/L	ND	0.01	2008222
Leachable Nitrate (N)	mg/L	ND	0.1	2008222
Leachable Nitrate + Nitrite	mg/L	ND	0.1	2008222
Metals				
Leachable Mercury (Hg)	mg/L	ND	0.001	2007298
Leachable Arsenic (As)	mg/L	ND	0.2	2007197
Leachable Barium (Ba)	mg/L	0.8	0.2	2007197
Leachable Boron (B)	mg/L	ND	0.1	2007197
Leachable Cadmium (Cd)	mg/L	ND	0.05	2007197
Leachable Chromium (Cr)	mg/L	ND	0.1	2007197
Leachable Lead (Pb)	mg/L	ND	0.1	2007197
Leachable Selenium (Se)	mg/L	ND	0.1	2007197
Leachable Silver (Ag)	mg/L	ND	0.01	2007197
Leachable Uranium (U)	mg/L	ND	0.01	2007197

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 558 TCLP LEACHATE PREPARATION (SOIL)

Maxxam ID		EH3475		
Sampling Date		2009/11/09 08:30		
COC Number		106745-0		
	Units	TCLP	RDL	QC Batch

Inorganics				
Final pH	pH	6.06		2007489
Initial pH	pH	9.44		2007489
TCLP - % Solids	%	100	0.2	2007486
TCLP Extraction Fluid	N/A	FLUID1		2007488
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

O'REG 558 TCLP PCBS (SOIL)

Maxxam ID		EH3475	EH3475		
Sampling Date		2009/11/09 08:30	2009/11/09 08:30		
COC Number		106745-0	106745-0		
	Units	TCLP	TCLP Lab-Dup	RDL	QC Batch

PCBs					
Leachable Total PCB	ug/L	ND	ND	3	2007176
Surrogate Recovery (%)					
Leachable 2,4,5,6-Tetrachloro-m-xylene	%	93	99		2007176
Leachable Decachlorobiphenyl	%	88	93		2007176
ND = Not detected RDL = Reportable Detection Limit Lab-Dup = Laboratory Initiated Duplicate QC Batch = Quality Control Batch					

Maxxam Job #: A9F1082
 Report Date: 2009/11/18

AECOM Canada Ltd
 Client Project #: 111853
 Project name: TTC SHEPPARD

MISCELLANEOUS (SOIL)

Maxxam ID		EH3475		
Sampling Date		2009/11/09 08:30		
COC Number		106745-0		
	Units	TCLP	RDL	QC Batch

Inorganics				
Ignitability	N/A	I/NF		2012434

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: A9F1082
Report Date: 2009/11/18

AECOM Canada Ltd
Client Project #: 111853
Project name: TTC SHEPPARD

Package 1	14.3°C
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Each temperature is the average of up to three cooler temperatures taken at receipt

GENERAL COMMENTS

Sample EH3475-01: I/NF=Ignitable but not flammable.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report
 Maxxam Job Number: MA9F1082

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2007176 LPG	Matrix Spike [EH3475-01]	Leachable 2,4,5,6-Tetrachloro-m-xylene	2009/11/12		98	%	40 - 130
		Leachable Decachlorobiphenyl	2009/11/12		98	%	40 - 130
		Leachable Total PCB	2009/11/12		108	%	40 - 130
	Spiked Blank	Leachable 2,4,5,6-Tetrachloro-m-xylene	2009/11/12		93	%	40 - 130
		Leachable Decachlorobiphenyl	2009/11/12		94	%	40 - 130
		Leachable Total PCB	2009/11/12		94	%	40 - 130
	Method Blank	Leachable 2,4,5,6-Tetrachloro-m-xylene	2009/11/12		99	%	40 - 130
		Leachable Decachlorobiphenyl	2009/11/12		97	%	40 - 130
		Leachable Total PCB	2009/11/12	ND, RDL=3		ug/L	
	2007197 ADA	Matrix Spike	Leachable Total PCB	2009/11/12	NC		%
Leachable Arsenic (As)			2009/11/12		95	%	75 - 125
Leachable Barium (Ba)			2009/11/12		102	%	75 - 125
Leachate Blank		Leachable Boron (B)	2009/11/12		95	%	75 - 125
		Leachable Cadmium (Cd)	2009/11/12		99	%	75 - 125
		Leachable Chromium (Cr)	2009/11/12		95	%	75 - 125
		Leachable Lead (Pb)	2009/11/12		93	%	75 - 125
		Leachable Selenium (Se)	2009/11/12		94	%	75 - 125
		Leachable Silver (Ag)	2009/11/12		92	%	75 - 125
		Leachable Uranium (U)	2009/11/12		92	%	75 - 125
	Leachable Arsenic (As)	2009/11/12	ND, RDL=0.2		mg/L		
	Leachable Barium (Ba)	2009/11/12	ND, RDL=0.2		mg/L		
	Leachable Boron (B)	2009/11/12	ND, RDL=0.1		mg/L		
Spiked Blank	Leachable Cadmium (Cd)	2009/11/12	ND, RDL=0.05		mg/L		
	Leachable Chromium (Cr)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Lead (Pb)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Selenium (Se)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Silver (Ag)	2009/11/12	ND, RDL=0.01		mg/L		
	Leachable Uranium (U)	2009/11/12	ND, RDL=0.01		mg/L		
	Leachable Arsenic (As)	2009/11/12		103	%	86 - 119	
	Leachable Barium (Ba)	2009/11/12		101	%	83 - 115	
	Leachable Boron (B)	2009/11/12		101	%	78 - 133	
	Leachable Cadmium (Cd)	2009/11/12		101	%	85 - 116	
Method Blank	Leachable Chromium (Cr)	2009/11/12		104	%	76 - 120	
	Leachable Lead (Pb)	2009/11/12		100	%	80 - 123	
	Leachable Selenium (Se)	2009/11/12		97	%	82 - 118	
	Leachable Silver (Ag)	2009/11/12		96	%	75 - 125	
	Leachable Uranium (U)	2009/11/12		97	%	82 - 124	
	Leachable Arsenic (As)	2009/11/12	ND, RDL=0.2		mg/L		
	Leachable Barium (Ba)	2009/11/12	ND, RDL=0.2		mg/L		
	Leachable Boron (B)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Cadmium (Cd)	2009/11/12	ND, RDL=0.05		mg/L		
	Leachable Chromium (Cr)	2009/11/12	ND, RDL=0.1		mg/L		
RPD	Leachable Lead (Pb)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Selenium (Se)	2009/11/12	ND, RDL=0.1		mg/L		
	Leachable Silver (Ag)	2009/11/12	ND, RDL=0.01		mg/L		
	Leachable Uranium (U)	2009/11/12	ND, RDL=0.01		mg/L		
	Leachable Arsenic (As)	2009/11/12	NC		%	25	
	Leachable Barium (Ba)	2009/11/12	NC		%	25	
	Leachable Boron (B)	2009/11/12	NC		%	25	
	Leachable Cadmium (Cd)	2009/11/12	NC		%	25	
	Leachable Chromium (Cr)	2009/11/12	NC		%	25	
	Leachable Lead (Pb)	2009/11/12	NC		%	25	
Leachable Selenium (Se)	2009/11/12	NC		%	25		
Leachable Silver (Ag)	2009/11/12	NC		%	25		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9F1082

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2007197 ADA	RPD	Leachable Uranium (U)	2009/11/12	NC		%	25
2007298 MC	Matrix Spike	Leachable Mercury (Hg)	2009/11/12		103	%	80 - 120
	Leachate Blank	Leachable Mercury (Hg)	2009/11/12	ND, RDL=0.001		mg/L	
	Spiked Blank	Leachable Mercury (Hg)	2009/11/12		103	%	80 - 120
	Method Blank	Leachable Mercury (Hg)	2009/11/12	ND, RDL=0.001		mg/L	
	RPD	Leachable Mercury (Hg)	2009/11/12	NC		%	25
2008216 YPA	Matrix Spike	Leachable Fluoride (F-)	2009/11/13		90	%	80 - 120
	Leachate Blank	Leachable Fluoride (F-)	2009/11/13	ND, RDL=0.1		mg/L	
	Spiked Blank	Leachable Fluoride (F-)	2009/11/13		101	%	80 - 120
	Method Blank	Leachable Fluoride (F-)	2009/11/13	ND, RDL=0.1		mg/L	
	RPD	Leachable Fluoride (F-)	2009/11/13	NC		%	25
2008222 CCI	Matrix Spike	Leachable Nitrite (N)	2009/11/13		100	%	75 - 125
		Leachable Nitrate (N)	2009/11/13		95	%	75 - 125
	Leachate Blank	Leachable Nitrite (N)	2009/11/13	ND, RDL=0.01		mg/L	
		Leachable Nitrate (N)	2009/11/13	ND, RDL=0.1		mg/L	
		Leachable Nitrate + Nitrite	2009/11/13	ND, RDL=0.1		mg/L	
	Spiked Blank	Leachable Nitrite (N)	2009/11/13		104	%	80 - 120
		Leachable Nitrate (N)	2009/11/13		96	%	80 - 120
	Method Blank	Leachable Nitrite (N)	2009/11/13	ND, RDL=0.01		mg/L	
		Leachable Nitrate (N)	2009/11/13	ND, RDL=0.1		mg/L	
		Leachable Nitrate + Nitrite	2009/11/13	ND, RDL=0.1		mg/L	
	RPD	Leachable Nitrite (N)	2009/11/13	NC		%	25
		Leachable Nitrate (N)	2009/11/13	NC		%	25
		Leachable Nitrate + Nitrite	2009/11/13	NC		%	25
2008224 LHA	Matrix Spike	Leachable Free Cyanide	2009/11/13		99	%	80 - 120
	Leachate Blank	Leachable Free Cyanide	2009/11/13	ND, RDL=0.002		mg/L	
	Spiked Blank	Leachable Free Cyanide	2009/11/13		102	%	80 - 120
	Method Blank	Leachable Free Cyanide	2009/11/13	ND, RDL=0.002		mg/L	
	RPD	Leachable Free Cyanide	2009/11/13	NC		%	20
2010308 MWG	Matrix Spike	Leachable 2,4,6-Tribromophenol	2009/11/17		75	%	10 - 130
		Leachable 2-Fluorobiphenyl	2009/11/17		70	%	30 - 130
		Leachable 2-Fluorophenol	2009/11/17		26	%	10 - 130
		Leachable D14-Terphenyl (FS)	2009/11/17		87	%	30 - 130
		Leachable D5-Nitrobenzene	2009/11/17		65	%	30 - 130
		Leachable D5-Phenol	2009/11/17		30	%	10 - 130
		Leachable Benzo(a)pyrene	2009/11/17		79	%	30 - 130
	Spiked Blank	Leachable 2,4,6-Tribromophenol	2009/11/17		88	%	10 - 130
		Leachable 2-Fluorobiphenyl	2009/11/17		83	%	30 - 130
		Leachable 2-Fluorophenol	2009/11/17		31	%	10 - 130
		Leachable D14-Terphenyl (FS)	2009/11/17		101	%	30 - 130
		Leachable D5-Nitrobenzene	2009/11/17		78	%	30 - 130
		Leachable D5-Phenol	2009/11/17		33	%	10 - 130
		Leachable Benzo(a)pyrene	2009/11/17		92	%	30 - 130
	Method Blank	Leachable 2,4,6-Tribromophenol	2009/11/17		82	%	10 - 130
		Leachable 2-Fluorobiphenyl	2009/11/17		76	%	30 - 130
		Leachable 2-Fluorophenol	2009/11/17		23	%	10 - 130
		Leachable D14-Terphenyl (FS)	2009/11/17		103	%	30 - 130
		Leachable D5-Nitrobenzene	2009/11/17		80	%	30 - 130
		Leachable D5-Phenol	2009/11/17		33	%	10 - 130
		Leachable Benzo(a)pyrene	2009/11/17	ND, RDL=0.1		ug/L	
	RPD	Leachable Benzo(a)pyrene	2009/11/17	NC		%	40
2010634 AAD	Matrix Spike	Leachable 4-Bromofluorobenzene	2009/11/17		101	%	70 - 130
		Leachable D4-1,2-Dichloroethane	2009/11/17		101	%	70 - 130
		Leachable D8-Toluene	2009/11/17		101	%	70 - 130
		Leachable Benzene	2009/11/17		104	%	70 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)
 Maxxam Job Number: MA9F1082

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2010634 AAD	Matrix Spike	Leachable Carbon Tetrachloride	2009/11/17		115	%	70 - 130	
		Leachable Chlorobenzene	2009/11/17		103	%	70 - 130	
		Leachable Chloroform	2009/11/17		106	%	70 - 130	
		Leachable 1,2-Dichlorobenzene	2009/11/17		102	%	70 - 130	
		Leachable 1,4-Dichlorobenzene	2009/11/17		104	%	70 - 130	
		Leachable 1,2-Dichloroethane	2009/11/17		104	%	70 - 130	
		Leachable 1,1-Dichloroethylene	2009/11/17		114	%	70 - 130	
		Leachable Methylene Chloride(Dichlorometha	2009/11/17		109	%	70 - 130	
		Leachable Methyl Ethyl Ketone (2-Butanone)	2009/11/17		100	%	60 - 140	
		Leachable Tetrachloroethylene	2009/11/17		109	%	70 - 130	
		Leachable Trichloroethylene	2009/11/17		106	%	70 - 130	
		Leachable Vinyl Chloride	2009/11/17		104	%	70 - 130	
		Spiked Blank	Leachable 4-Bromofluorobenzene	2009/11/17		102	%	70 - 130
			Leachable D4-1,2-Dichloroethane	2009/11/17		102	%	70 - 130
			Leachable D8-Toluene	2009/11/17		100	%	70 - 130
	Leachable Benzene		2009/11/17		105	%	70 - 130	
	Leachable Carbon Tetrachloride		2009/11/17		114	%	70 - 130	
	Leachable Chlorobenzene		2009/11/17		104	%	70 - 130	
	Leachable Chloroform		2009/11/17		107	%	70 - 130	
	Leachable 1,2-Dichlorobenzene		2009/11/17		102	%	70 - 130	
	Leachable 1,4-Dichlorobenzene		2009/11/17		103	%	70 - 130	
	Leachable 1,2-Dichloroethane		2009/11/17		108	%	70 - 130	
	Leachable 1,1-Dichloroethylene		2009/11/17		114	%	70 - 130	
	Leachable Methylene Chloride(Dichlorometha		2009/11/17		111	%	70 - 130	
	Leachable Methyl Ethyl Ketone (2-Butanone)	2009/11/17		106	%	60 - 140		
	Method Blank	Leachable Tetrachloroethylene	2009/11/17		106	%	70 - 130	
		Leachable Trichloroethylene	2009/11/17		106	%	70 - 130	
		Leachable Vinyl Chloride	2009/11/17		104	%	70 - 130	
		Leachable 4-Bromofluorobenzene	2009/11/17		98	%	70 - 130	
		Leachable D4-1,2-Dichloroethane	2009/11/17		100	%	70 - 130	
		Leachable D8-Toluene	2009/11/17		99	%	70 - 130	
		Leachable Benzene	2009/11/17		ND, RDL=0.01		mg/L	
		Leachable Carbon Tetrachloride	2009/11/17		ND, RDL=0.01		mg/L	
Leachable Chlorobenzene		2009/11/17		ND, RDL=0.01		mg/L		
Leachable Chloroform		2009/11/17		ND, RDL=0.01		mg/L		
Leachable 1,2-Dichlorobenzene		2009/11/17		ND, RDL=0.02		mg/L		
Leachable 1,4-Dichlorobenzene		2009/11/17		ND, RDL=0.02		mg/L		
Leachable 1,2-Dichloroethane	2009/11/17		ND, RDL=0.02		mg/L			
Leachable 1,1-Dichloroethylene	2009/11/17		ND, RDL=0.01		mg/L			
Leachable Methylene Chloride(Dichlorometha	2009/11/17		ND, RDL=0.05		mg/L			
Leachable Methyl Ethyl Ketone (2-Butanone)	2009/11/17		ND, RDL=0.5		mg/L			
RPD	Leachable Tetrachloroethylene	2009/11/17		ND, RDL=0.01		mg/L		
	Leachable Trichloroethylene	2009/11/17		ND, RDL=0.01		mg/L		
	Leachable Vinyl Chloride	2009/11/17		ND, RDL=0.02		mg/L		
	Leachable Benzene	2009/11/17		NC		%	40	
	Leachable Carbon Tetrachloride	2009/11/17		NC		%	40	
	Leachable Chlorobenzene	2009/11/17		NC		%	40	
	Leachable Chloroform	2009/11/17		NC		%	40	
	Leachable 1,2-Dichlorobenzene	2009/11/17		NC		%	40	
	Leachable 1,4-Dichlorobenzene	2009/11/17		NC		%	40	
	Leachable 1,2-Dichloroethane	2009/11/17		NC		%	40	
	Leachable 1,1-Dichloroethylene	2009/11/17		NC		%	40	
	Leachable Methylene Chloride(Dichlorometha	2009/11/17		NC		%	40	
Leachable Methyl Ethyl Ketone (2-Butanone)	2009/11/17		NC		%	40		
Leachable Tetrachloroethylene	2009/11/17		NC		%	40		

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 111853
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MA9F1082

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2010634 AAD	RPD	Leachable Trichloroethylene	2009/11/17	NC		%	40
		Leachable Vinyl Chloride	2009/11/17	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.
 Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.
 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 #: A9F1082

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



CHARLES ANCKER, B.Sc., M.Sc., C.Chem, Senior Analyst



CRISTINA CARRIERE, Scientific Services



FLOYD MAYEDE, 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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 60118979
 Site: TTC SHEPPARD
 Your C.O.C. #: 10674501, 106745-0

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2010/01/29

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B007987

Received: 2010/01/22, 11:38

Sample Matrix: Soil
 # Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Chloride (20:1 extract)	2	N/A	2010/01/28	CAM SOP-00463	
Free Cyanide	2	N/A	2010/01/27	CAM SOP-00457	SM 4500CN-I
Conductivity	2	N/A	2010/01/28	CAM SOP-00414	APHA 2510
Chromium (VI) in Soil	2	2010/01/25	2010/01/27	CAM SOP-00420	EPA 3060A
Petroleum Hydro. CCME F1 & BTEX in Soil	2	2010/01/23	2010/01/27	CAM SOP-00315	CCME CWS
Petroleum Hydrocarbons F2-F4 in Soil	2	2010/01/27	2010/01/27	CAM SOP-00316	CCME CWS
Acid Extr. Metals (aqua regia) by ICPMS	2	2010/01/28	2010/01/28	CAM SOP-00447	EPA 6020
MOISTURE	2	N/A	2010/01/26	CAM SOP-00445	McKeague 2nd ed 1978
Nitrate (NO3) and Nitrite (NO2) in Soil	2	N/A	2010/01/28	CAM SOP-00440	SM 4500 NO3/NO2B
PAH Compounds in Soil by GC/MS (SIM)	2	2010/01/25	2010/01/26	CAM SOP - 00318	EPA 8270
pH CaCl2 EXTRACT	2	2010/01/28	2010/01/28	CAM SOP-00413	SM 4500 H
Sodium Adsorption Ratio (SAR)	2	2010/01/22	2010/01/29	CAM SOP-00102	EPA 6010
Total Kjeldahl Nitrogen - Soil	2	2010/01/25	2010/01/26	CAM SOP-00454	EPA 351.2 Rev 2
Volatile Organic Compounds in Soil	2	2010/01/26	2010/01/28	CAM SOP-00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

Your Project #: 60118979
Site: TTC SHEPPARD
Your C.O.C. #: 10674501, 106745-0

Attention: Jason Cole

AECOM Canada Ltd
300 Town Centre Blvd
Suite 300
Markham, ON
L3R 5Z6

Report Date: 2010/01/29

CERTIFICATE OF ANALYSIS

-2-

Encryption Key

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

MARIJANE CRUZ, Project Manager
Email: Marijane.Cruz@maxxamanalytics.com
Phone# (905) 817-5756

=====
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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 2

Maxxam Job #: B007987
 Report Date: 2010/01/29

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

O'REG 153 PETROLEUM HYDROCARBONS (SOIL)

Maxxam ID		EX3039	EX3040		
Sampling Date		2010/01/19 10:30	2010/01/19 11:00		
COC Number		106745-0	106745-0		
	Units	BH22-2	BH22-8	RDL	QC Batch

Inorganics					
Moisture	%	11	11	0.2	2064804
BTEX & F1 Hydrocarbons					
F1 (C6-C10)	ug/g	ND	ND	10	2065464
F1 (C6-C10) - BTEX	ug/g	ND	ND	10	2065464
F2-F4 Hydrocarbons					
F2 (C10-C16 Hydrocarbons)	ug/g	ND	ND	10	2065046
F3 (C16-C34 Hydrocarbons)	ug/g	ND	ND	10	2065046
F4 (C34-C50 Hydrocarbons)	ug/g	ND	ND	10	2065046
Reached Baseline at C50	ug/g	Yes	Yes		2065046
Surrogate Recovery (%)					
1,4-Difluorobenzene	%	101	101		2065464
4-Bromofluorobenzene	%	101	101		2065464
D10-Ethylbenzene	%	93	95		2065464
D4-1,2-Dichloroethane	%	100	99		2065464
o-Terphenyl	%	80	81		2065046
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B007987
 Report Date: 2010/01/29

 AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

O'REG 153 POLYAROMATIC HYDROCARBONS (SOIL)

Maxxam ID		EX3039	EX3040		
Sampling Date		2010/01/19 10:30	2010/01/19 11:00		
COC Number		106745-0	106745-0		
	Units	BH22-2	BH22-8	RDL	QC Batch

Polyaromatic Hydrocarbons					
Acenaphthene	ug/g	ND	ND	0.01	2063364
Acenaphthylene	ug/g	ND	ND	0.005	2063364
Anthracene	ug/g	ND	ND	0.005	2063364
Benzo(a)anthracene	ug/g	ND	ND	0.01	2063364
Benzo(a)pyrene	ug/g	ND	ND	0.005	2063364
Benzo(b/j)fluoranthene	ug/g	ND	ND	0.01	2063364
Benzo(g,h,i)perylene	ug/g	ND	ND	0.02	2063364
Benzo(k)fluoranthene	ug/g	ND	ND	0.01	2063364
Chrysene	ug/g	ND	ND	0.01	2063364
Dibenz(a,h)anthracene	ug/g	ND	ND	0.02	2063364
Fluoranthene	ug/g	ND	ND	0.005	2063364
Fluorene	ug/g	ND	ND	0.005	2063364
Indeno(1,2,3-cd)pyrene	ug/g	ND	ND	0.02	2063364
1-Methylnaphthalene	ug/g	ND	ND	0.005	2063364
2-Methylnaphthalene	ug/g	ND	ND	0.005	2063364
Naphthalene	ug/g	ND	ND	0.005	2063364
Phenanthrene	ug/g	ND	ND	0.005	2063364
Pyrene	ug/g	ND	ND	0.005	2063364
Surrogate Recovery (%)					
D10-Anthracene	%	89	85		2063364
D14-Terphenyl (FS)	%	96	96		2063364
D7-Quinoline	%	53	52		2063364
D8-Acenaphthylene	%	54	43		2063364

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B007987
 Report Date: 2010/01/29

 AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

O'REG 153 METALS & INORGANICS, TABLE 1 (SOIL)

Maxxam ID		EX3039	EX3040		
Sampling Date		2010/01/19 10:30	2010/01/19 11:00		
COC Number		106745-0	106745-0		
	Units	BH22-2	BH22-8	RDL	QC Batch

Calculated Parameters					
Sodium Adsorption Ratio	N/A	2.5	1.8	N/A	2062019
Inorganics					
Soluble (20:1) Chloride (Cl)	ug/g	160	250	20	2066242
Conductivity	mS/cm	0.24	0.28	0.002	2066269
Free Cyanide	ug/g	ND	ND	0.01	2064988
Available (CaCl ₂) pH	pH	7.63	7.60		2066112
Total Kjeldahl Nitrogen	ug/g	216	183	10	2063723
Nitrite (N)	ug/g	ND	ND	0.5	2066254
Nitrate (N)	ug/g	ND	ND	2	2066254
Nitrate + Nitrite	ug/g	ND	ND	3	2066254
Metals					
Chromium (VI)	ug/g	ND	ND	0.2	2064246
Acid Extractable Antimony (Sb)	ug/g	ND	ND	0.2	2066025
Acid Extractable Arsenic (As)	ug/g	2	2	1	2066025
Acid Extractable Barium (Ba)	ug/g	45	47	0.5	2066025
Acid Extractable Beryllium (Be)	ug/g	0.4	0.3	0.2	2066025
Acid Extractable Boron (B)	ug/g	ND	ND	5	2066025
Acid Extractable Cadmium (Cd)	ug/g	ND	ND	0.1	2066025
Acid Extractable Chromium (Cr)	ug/g	12	13	1	2066025
Acid Extractable Cobalt (Co)	ug/g	6.2	5.8	0.1	2066025
Acid Extractable Copper (Cu)	ug/g	13	13	0.5	2066025
Acid Extractable Lead (Pb)	ug/g	7	7	1	2066025
Acid Extractable Molybdenum (Mo)	ug/g	ND	ND	0.5	2066025
Acid Extractable Nickel (Ni)	ug/g	12	13	0.5	2066025
Acid Extractable Selenium (Se)	ug/g	ND	ND	0.5	2066025
Acid Extractable Silver (Ag)	ug/g	ND	ND	0.2	2066025
Acid Extractable Thallium (Tl)	ug/g	0.12	0.10	0.05	2066025
Acid Extractable Vanadium (V)	ug/g	20	21	5	2066025
Acid Extractable Zinc (Zn)	ug/g	35	35	5	2066025
Acid Extractable Mercury (Hg)	ug/g	ND	ND	0.05	2066025
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B007987
 Report Date: 2010/01/29

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EX3039	EX3040		
Sampling Date		2010/01/19 10:30	2010/01/19 11:00		
COC Number		106745-0	106745-0		
	Units	BH22-2	BH22-8	RDL	QC Batch

Volatile Organics					
Acetone (2-Propanone)	ug/g	ND	ND	0.1	2064556
Benzene	ug/g	0.003	0.002	0.002	2064556
Bromodichloromethane	ug/g	ND	ND	0.002	2064556
Bromoform	ug/g	ND	ND	0.002	2064556
Bromomethane	ug/g	ND	ND	0.003	2064556
Carbon Tetrachloride	ug/g	ND	ND	0.002	2064556
Chlorobenzene	ug/g	ND	ND	0.002	2064556
Chloroform	ug/g	ND	ND	0.002	2064556
Dibromochloromethane	ug/g	ND	ND	0.002	2064556
1,2-Dichlorobenzene	ug/g	ND	ND	0.002	2064556
1,3-Dichlorobenzene	ug/g	ND	ND	0.002	2064556
1,4-Dichlorobenzene	ug/g	ND	ND	0.002	2064556
1,1-Dichloroethane	ug/g	ND	ND	0.002	2064556
1,2-Dichloroethane	ug/g	ND	ND	0.002	2064556
1,1-Dichloroethylene	ug/g	ND	ND	0.002	2064556
cis-1,2-Dichloroethylene	ug/g	ND	ND	0.002	2064556
trans-1,2-Dichloroethylene	ug/g	ND	ND	0.002	2064556
1,2-Dichloropropane	ug/g	ND	ND	0.002	2064556
cis-1,3-Dichloropropene	ug/g	ND	ND	0.002	2064556
trans-1,3-Dichloropropene	ug/g	ND	ND	0.002	2064556
Ethylbenzene	ug/g	ND	ND	0.002	2064556
Ethylene Dibromide	ug/g	ND	ND	0.002	2064556
Methylene Chloride(Dichloromethane)	ug/g	ND	ND	0.003	2064556
Methyl Isobutyl Ketone	ug/g	ND	ND	0.03	2064556
Methyl Ethyl Ketone (2-Butanone)	ug/g	ND	ND	0.03	2064556
Methyl t-butyl ether (MTBE)	ug/g	ND	ND	0.002	2064556
Styrene	ug/g	ND	ND	0.002	2064556
1,1,1,2-Tetrachloroethane	ug/g	ND	ND	0.002	2064556
1,1,2,2-Tetrachloroethane	ug/g	ND	ND	0.002	2064556
Tetrachloroethylene	ug/g	ND	ND	0.002	2064556
Toluene	ug/g	0.011	0.009	0.002	2064556

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B007987
 Report Date: 2010/01/29

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

O'REG 153 VOLATILE ORGANICS (SOIL)

Maxxam ID		EX3039	EX3040		
Sampling Date		2010/01/19 10:30	2010/01/19 11:00		
COC Number		106745-0	106745-0		
	Units	BH22-2	BH22-8	RDL	QC Batch
1,1,1-Trichloroethane	ug/g	ND	ND	0.002	2064556
1,1,2-Trichloroethane	ug/g	ND	ND	0.002	2064556
Trichloroethylene	ug/g	ND	ND	0.002	2064556
Vinyl Chloride	ug/g	ND	ND	0.002	2064556
p+m-Xylene	ug/g	0.012	0.010	0.002	2064556
o-Xylene	ug/g	0.003	0.003	0.002	2064556
Xylene (Total)	ug/g	0.015	0.013	0.002	2064556
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	87	88		2064556
D4-1,2-Dichloroethane	%	113	108		2064556
D8-Toluene	%	110	112		2064556
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B007987
Report Date: 2010/01/29

AECOM Canada Ltd
Client Project #: 60118979
Project name: TTC SHEPPARD
Sampler Initials: JC

Package 1	1.0°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.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report
 Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2063364 DTI	Matrix Spike	D10-Anthracene	2010/01/25		87	%	30 - 130		
		D14-Terphenyl (FS)	2010/01/25		92	%	30 - 130		
		D7-Quinoline	2010/01/25		74	%	30 - 130		
		D8-Acenaphthylene	2010/01/25		57	%	30 - 130		
		Acenaphthene	2010/01/25		69	%	30 - 130		
		Acenaphthylene	2010/01/25		64	%	30 - 130		
		Anthracene	2010/01/25		91	%	30 - 130		
		Benzo(a)anthracene	2010/01/25		104	%	30 - 130		
		Benzo(a)pyrene	2010/01/25		102	%	30 - 130		
		Benzo(b/j)fluoranthene	2010/01/25		84	%	30 - 130		
		Benzo(g,h,i)perylene	2010/01/25		97	%	30 - 130		
		Benzo(k)fluoranthene	2010/01/25		102	%	30 - 130		
		Chrysene	2010/01/25		104	%	30 - 130		
		Dibenz(a,h)anthracene	2010/01/25		98	%	30 - 130		
		Fluoranthene	2010/01/25		100	%	30 - 130		
		Fluorene	2010/01/25		79	%	30 - 130		
		Indeno(1,2,3-cd)pyrene	2010/01/25		93	%	30 - 130		
		1-Methylnaphthalene	2010/01/25		67	%	30 - 130		
		2-Methylnaphthalene	2010/01/25		60	%	30 - 130		
		Naphthalene	2010/01/25		56	%	30 - 130		
		Phenanthrene	2010/01/25		91	%	30 - 130		
		Pyrene	2010/01/25		99	%	30 - 130		
		Spiked Blank		D10-Anthracene	2010/01/25		90	%	30 - 130
				D14-Terphenyl (FS)	2010/01/25		98	%	30 - 130
				D7-Quinoline	2010/01/25		83	%	30 - 130
				D8-Acenaphthylene	2010/01/25		69	%	30 - 130
				Acenaphthene	2010/01/25		81	%	30 - 130
				Acenaphthylene	2010/01/25		77	%	30 - 130
				Anthracene	2010/01/25		94	%	30 - 130
				Benzo(a)anthracene	2010/01/25		108	%	30 - 130
				Benzo(a)pyrene	2010/01/25		104	%	30 - 130
				Benzo(b/j)fluoranthene	2010/01/25		88	%	30 - 130
				Benzo(g,h,i)perylene	2010/01/25		97	%	30 - 130
Benzo(k)fluoranthene	2010/01/25				106	%	30 - 130		
Chrysene	2010/01/25				106	%	30 - 130		
Dibenz(a,h)anthracene	2010/01/25				98	%	30 - 130		
Fluoranthene	2010/01/25				103	%	30 - 130		
Fluorene	2010/01/25				86	%	30 - 130		
Indeno(1,2,3-cd)pyrene	2010/01/25				91	%	30 - 130		
1-Methylnaphthalene	2010/01/25				85	%	30 - 130		
2-Methylnaphthalene	2010/01/25				82	%	30 - 130		
Naphthalene	2010/01/25				77	%	30 - 130		
Phenanthrene	2010/01/25				94	%	30 - 130		
Pyrene	2010/01/25				102	%	30 - 130		
Method Blank				D10-Anthracene	2010/01/25		92	%	30 - 130
				D14-Terphenyl (FS)	2010/01/25		95	%	30 - 130
				D7-Quinoline	2010/01/25		87	%	30 - 130
				D8-Acenaphthylene	2010/01/25		76	%	30 - 130
				Acenaphthene	2010/01/25	ND, RDL=0.01		ug/g	
				Acenaphthylene	2010/01/25	ND, RDL=0.005		ug/g	
				Anthracene	2010/01/25	ND, RDL=0.005		ug/g	
				Benzo(a)anthracene	2010/01/25	ND, RDL=0.01		ug/g	
				Benzo(a)pyrene	2010/01/25	ND, RDL=0.005		ug/g	
				Benzo(b/j)fluoranthene	2010/01/25	ND, RDL=0.01		ug/g	
				Benzo(g,h,i)perylene	2010/01/25	ND, RDL=0.02		ug/g	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2063364 DTI	Method Blank	Benzo(k)fluoranthene	2010/01/25	ND, RDL=0.01		ug/g		
		Chrysene	2010/01/25	ND, RDL=0.01		ug/g		
		Dibenz(a,h)anthracene	2010/01/25	ND, RDL=0.02		ug/g		
		Fluoranthene	2010/01/25	ND, RDL=0.005		ug/g		
		Fluorene	2010/01/25	ND, RDL=0.005		ug/g		
		Indeno(1,2,3-cd)pyrene	2010/01/25	ND, RDL=0.02		ug/g		
		1-Methylnaphthalene	2010/01/25	ND, RDL=0.005		ug/g		
		2-Methylnaphthalene	2010/01/25	ND, RDL=0.005		ug/g		
		Naphthalene	2010/01/25	ND, RDL=0.005		ug/g		
		Phenanthrene	2010/01/25	ND, RDL=0.005		ug/g		
		Pyrene	2010/01/25	ND, RDL=0.005		ug/g		
		RPD	Acenaphthene	2010/01/25	NC		%	50
			Acenaphthylene	2010/01/25	NC		%	50
	Anthracene		2010/01/25	NC		%	50	
	Benzo(a)anthracene		2010/01/25	NC		%	50	
	Benzo(a)pyrene		2010/01/25	NC		%	50	
	Benzo(b/j)fluoranthene		2010/01/25	NC		%	50	
	Benzo(g,h,i)perylene		2010/01/25	NC		%	50	
	Benzo(k)fluoranthene		2010/01/25	NC		%	50	
	Chrysene		2010/01/25	NC		%	50	
	Dibenz(a,h)anthracene		2010/01/25	NC		%	50	
	Fluoranthene		2010/01/25	NC		%	50	
	Fluorene		2010/01/25	NC		%	50	
	Indeno(1,2,3-cd)pyrene		2010/01/25	NC		%	50	
	1-Methylnaphthalene		2010/01/25	NC		%	50	
	2-Methylnaphthalene	2010/01/25	NC		%	50		
	Naphthalene	2010/01/25	NC		%	50		
Phenanthrene	2010/01/25	NC		%	50			
Pyrene	2010/01/25	NC		%	50			
2063723 JDE	Matrix Spike	Total Kjeldahl Nitrogen	2010/01/26		99	%	75 - 125	
	QC Standard	Total Kjeldahl Nitrogen	2010/01/26		85	%	75 - 125	
	Method Blank	Total Kjeldahl Nitrogen	2010/01/26	ND, RDL=10		ug/g		
	RPD	Total Kjeldahl Nitrogen	2010/01/26	0.2		%	40	
2064246 VRO	Matrix Spike	Chromium (VI)	2010/01/27		56 (1)	%	75 - 125	
	QC Standard	Chromium (VI)	2010/01/27		98	%	85 - 115	
	Spiked Blank	Chromium (VI)	2010/01/27		101	%	75 - 125	
	Method Blank	Chromium (VI)	2010/01/27	ND, RDL=0.2		ug/g		
	RPD	Chromium (VI)	2010/01/27	NC		%	35	
2064556 JZO	Matrix Spike	4-Bromofluorobenzene	2010/01/28		91	%	60 - 140	
		D4-1,2-Dichloroethane	2010/01/28		82	%	60 - 140	
		D8-Toluene	2010/01/28		109	%	60 - 140	
		Acetone (2-Propanone)	2010/01/28		139	%	24 - 171	
		Benzene	2010/01/28		101	%	39 - 137	
		Bromodichloromethane	2010/01/28		90	%	45 - 131	
		Bromoform	2010/01/28		69	%	44 - 131	
		Bromomethane	2010/01/28		96	%	20 - 146	
		Carbon Tetrachloride	2010/01/28		115	%	40 - 139	
		Chlorobenzene	2010/01/28		106	%	45 - 140	
		Chloroform	2010/01/28		96	%	48 - 128	
		Dibromochloromethane	2010/01/28		94	%	52 - 135	
		1,2-Dichlorobenzene	2010/01/28		108	%	39 - 145	
		1,3-Dichlorobenzene	2010/01/28		125	%	38 - 158	
		1,4-Dichlorobenzene	2010/01/28		107	%	35 - 159	
		1,1-Dichloroethane	2010/01/28		99	%	48 - 131	
		1,2-Dichloroethane	2010/01/28		82	%	43 - 123	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2064556	JZO	Matrix Spike					
		1,1-Dichloroethylene	2010/01/28		112	%	50 - 134
		cis-1,2-Dichloroethylene	2010/01/28		101	%	45 - 136
		trans-1,2-Dichloroethylene	2010/01/28		110	%	45 - 138
		1,2-Dichloropropane	2010/01/28		99	%	51 - 130
		cis-1,3-Dichloropropene	2010/01/28		98	%	39 - 143
		trans-1,3-Dichloropropene	2010/01/28		97	%	33 - 135
		Ethylbenzene	2010/01/28		116	%	46 - 150
		Ethylene Dibromide	2010/01/28		85	%	48 - 136
		Methylene Chloride(Dichloromethane)	2010/01/28		99	%	47 - 124
		Methyl Isobutyl Ketone	2010/01/28		66	%	48 - 133
		Methyl Ethyl Ketone (2-Butanone)	2010/01/28		100	%	39 - 160
		Methyl t-butyl ether (MTBE)	2010/01/28		80	%	37 - 150
		Styrene	2010/01/28		114	%	27 - 148
		1,1,1,2-Tetrachloroethane	2010/01/28		105	%	51 - 140
		1,1,2,2-Tetrachloroethane	2010/01/28		67	%	46 - 128
		Tetrachloroethylene	2010/01/28		121	%	45 - 154
		Toluene	2010/01/28		114	%	30 - 158
		1,1,1-Trichloroethane	2010/01/28		103	%	44 - 136
		1,1,2-Trichloroethane	2010/01/28		85	%	56 - 135
		Trichloroethylene	2010/01/28		107	%	39 - 146
		Vinyl Chloride	2010/01/28		97	%	34 - 136
		p+m-Xylene	2010/01/28		119	%	29 - 161
		o-Xylene	2010/01/28		109	%	45 - 150
		Spiked Blank					
		4-Bromofluorobenzene	2010/01/28		103	%	60 - 140
		D4-1,2-Dichloroethane	2010/01/28		95	%	60 - 140
		D8-Toluene	2010/01/28		100	%	60 - 140
		Acetone (2-Propanone)	2010/01/28		91	%	60 - 140
		Benzene	2010/01/28		99	%	60 - 140
		Bromodichloromethane	2010/01/28		97	%	60 - 140
		Bromoform	2010/01/28		89	%	60 - 140
		Bromomethane	2010/01/28		93	%	60 - 140
		Carbon Tetrachloride	2010/01/28		107	%	60 - 140
		Chlorobenzene	2010/01/28		100	%	60 - 140
		Chloroform	2010/01/28		97	%	60 - 140
		Dibromochloromethane	2010/01/28		102	%	60 - 140
		1,2-Dichlorobenzene	2010/01/28		99	%	60 - 140
		1,3-Dichlorobenzene	2010/01/28		105	%	60 - 140
		1,4-Dichlorobenzene	2010/01/28		93	%	60 - 140
		1,1-Dichloroethane	2010/01/28		97	%	60 - 140
		1,2-Dichloroethane	2010/01/28		94	%	60 - 140
		1,1-Dichloroethylene	2010/01/28		105	%	60 - 140
		cis-1,2-Dichloroethylene	2010/01/28		100	%	60 - 140
		trans-1,2-Dichloroethylene	2010/01/28		104	%	60 - 140
		1,2-Dichloropropane	2010/01/28		104	%	60 - 140
		cis-1,3-Dichloropropene	2010/01/28		106	%	60 - 140
		trans-1,3-Dichloropropene	2010/01/28		103	%	60 - 140
		Ethylbenzene	2010/01/28		103	%	60 - 140
		Ethylene Dibromide	2010/01/28		100	%	60 - 140
		Methylene Chloride(Dichloromethane)	2010/01/28		99	%	60 - 140
		Methyl Isobutyl Ketone	2010/01/28		105	%	60 - 140
		Methyl Ethyl Ketone (2-Butanone)	2010/01/28		97	%	60 - 140
		Methyl t-butyl ether (MTBE)	2010/01/28		100	%	60 - 140
		Styrene	2010/01/28		113	%	60 - 140
		1,1,1,2-Tetrachloroethane	2010/01/28		101	%	60 - 140
		1,1,2,2-Tetrachloroethane	2010/01/28		93	%	60 - 140

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2064556 JZO	Spiked Blank	Tetrachloroethylene	2010/01/28		104	%	60 - 140
		Toluene	2010/01/28		97	%	60 - 140
1,1,1-Trichloroethane		2010/01/28		97	%	60 - 140	
1,1,2-Trichloroethane		2010/01/28		93	%	60 - 140	
Trichloroethylene		2010/01/28		104	%	60 - 140	
Vinyl Chloride		2010/01/28		90	%	60 - 140	
Method Blank	Method Blank	p+m-Xylene	2010/01/28		104	%	60 - 140
		o-Xylene	2010/01/28		100	%	60 - 140
		4-Bromofluorobenzene	2010/01/27		96	%	60 - 140
		D4-1,2-Dichloroethane	2010/01/27		113	%	60 - 140
		D8-Toluene	2010/01/27		103	%	60 - 140
		Acetone (2-Propanone)	2010/01/27	ND, RDL=0.1		ug/g	
		Benzene	2010/01/27	ND, RDL=0.002		ug/g	
		Bromodichloromethane	2010/01/27	ND, RDL=0.002		ug/g	
		Bromoform	2010/01/27	ND, RDL=0.002		ug/g	
		Bromomethane	2010/01/27	ND, RDL=0.003		ug/g	
		Carbon Tetrachloride	2010/01/27	ND, RDL=0.002		ug/g	
		Chlorobenzene	2010/01/27	ND, RDL=0.002		ug/g	
		Chloroform	2010/01/27	ND, RDL=0.002		ug/g	
		Dibromochloromethane	2010/01/27	ND, RDL=0.002		ug/g	
		1,2-Dichlorobenzene	2010/01/27	ND, RDL=0.002		ug/g	
		1,3-Dichlorobenzene	2010/01/27	ND, RDL=0.002		ug/g	
		1,4-Dichlorobenzene	2010/01/27	ND, RDL=0.002		ug/g	
		1,1-Dichloroethane	2010/01/27	ND, RDL=0.002		ug/g	
		1,2-Dichloroethane	2010/01/27	ND, RDL=0.002		ug/g	
		1,1-Dichloroethylene	2010/01/27	ND, RDL=0.002		ug/g	
		cis-1,2-Dichloroethylene	2010/01/27	ND, RDL=0.002		ug/g	
		trans-1,2-Dichloroethylene	2010/01/27	ND, RDL=0.002		ug/g	
		1,2-Dichloropropane	2010/01/27	ND, RDL=0.002		ug/g	
		cis-1,3-Dichloropropene	2010/01/27	ND, RDL=0.002		ug/g	
		trans-1,3-Dichloropropene	2010/01/27	ND, RDL=0.002		ug/g	
		Ethylbenzene	2010/01/27	ND, RDL=0.002		ug/g	
		Ethylene Dibromide	2010/01/27	ND, RDL=0.002		ug/g	
		Methylene Chloride(Dichloromethane)	2010/01/27	ND, RDL=0.003		ug/g	
Methyl Isobutyl Ketone	2010/01/27	ND, RDL=0.03		ug/g			
Methyl Ethyl Ketone (2-Butanone)	2010/01/27	ND, RDL=0.03		ug/g			
Methyl t-butyl ether (MTBE)	2010/01/27	ND, RDL=0.002		ug/g			
Styrene	2010/01/27	ND, RDL=0.002		ug/g			
1,1,1,2-Tetrachloroethane	2010/01/27	ND, RDL=0.002		ug/g			
1,1,2,2-Tetrachloroethane	2010/01/27	ND, RDL=0.002		ug/g			
Tetrachloroethylene	2010/01/27	ND, RDL=0.002		ug/g			
Toluene	2010/01/27	ND, RDL=0.002		ug/g			
1,1,1-Trichloroethane	2010/01/27	ND, RDL=0.002		ug/g			
1,1,2-Trichloroethane	2010/01/27	ND, RDL=0.002		ug/g			
Trichloroethylene	2010/01/27	ND, RDL=0.002		ug/g			
Vinyl Chloride	2010/01/27	ND, RDL=0.002		ug/g			
p+m-Xylene	2010/01/27	ND, RDL=0.002		ug/g			
o-Xylene	2010/01/27	ND, RDL=0.002		ug/g			
Xylene (Total)	2010/01/27	ND, RDL=0.002		ug/g			
RPD	RPD	Acetone (2-Propanone)	2010/01/28	NC		%	50
		Benzene	2010/01/28	NC		%	50
		Bromodichloromethane	2010/01/28	NC		%	50
		Bromoform	2010/01/28	NC		%	50
		Bromomethane	2010/01/28	NC		%	50
		Carbon Tetrachloride	2010/01/28	NC		%	50

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
2064556 JZO	RPD	Chlorobenzene	2010/01/28	NC		%	50
		Chloroform	2010/01/28	NC		%	50
		Dibromochloromethane	2010/01/28	NC		%	50
		1,2-Dichlorobenzene	2010/01/28	NC		%	50
		1,3-Dichlorobenzene	2010/01/28	NC		%	50
		1,4-Dichlorobenzene	2010/01/28	NC		%	50
		1,1-Dichloroethane	2010/01/28	NC		%	50
		1,2-Dichloroethane	2010/01/28	NC		%	50
		1,1-Dichloroethylene	2010/01/28	NC		%	50
		cis-1,2-Dichloroethylene	2010/01/28	NC		%	50
		trans-1,2-Dichloroethylene	2010/01/28	NC		%	50
		1,2-Dichloropropane	2010/01/28	NC		%	50
		cis-1,3-Dichloropropene	2010/01/28	NC		%	50
		trans-1,3-Dichloropropene	2010/01/28	NC		%	50
		Ethylbenzene	2010/01/28	NC		%	50
		Ethylene Dibromide	2010/01/28	NC		%	50
		Methylene Chloride(Dichloromethane)	2010/01/28	NC		%	50
		Methyl Isobutyl Ketone	2010/01/28	NC		%	50
		Methyl Ethyl Ketone (2-Butanone)	2010/01/28	NC		%	50
		Methyl t-butyl ether (MTBE)	2010/01/28	NC		%	50
		Styrene	2010/01/28	NC		%	50
		1,1,1,2-Tetrachloroethane	2010/01/28	NC		%	50
		1,1,2,2-Tetrachloroethane	2010/01/28	NC		%	50
		Tetrachloroethylene	2010/01/28	NC		%	50
		Toluene	2010/01/28	NC		%	50
		1,1,1-Trichloroethane	2010/01/28	NC		%	50
		1,1,2-Trichloroethane	2010/01/28	NC		%	50
		Trichloroethylene	2010/01/28	NC		%	50
		Vinyl Chloride	2010/01/28	NC		%	50
		p+m-Xylene	2010/01/28	NC		%	50
		o-Xylene	2010/01/28	NC		%	50
		Xylene (Total)	2010/01/28	NC		%	50
2064804 VK	RPD	Moisture	2010/01/26	3.9		%	50
2064988 LHA	Matrix Spike	Free Cyanide	2010/01/27		14 (2)	%	75 - 125
	Spiked Blank	Free Cyanide	2010/01/27		103	%	75 - 125
	Method Blank	Free Cyanide	2010/01/27	ND, RDL=0.01		ug/g	
	RPD	Free Cyanide	2010/01/27	NC		%	35
2065046 NCI	Matrix Spike	o-Terphenyl	2010/01/28		72	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/01/28		82	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/01/28		82	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/01/28		82	%	60 - 130
	Spiked Blank	o-Terphenyl	2010/01/28		75	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/01/28		77	%	60 - 130
		F3 (C16-C34 Hydrocarbons)	2010/01/28		77	%	60 - 130
		F4 (C34-C50 Hydrocarbons)	2010/01/28		77	%	60 - 130
	Method Blank	o-Terphenyl	2010/01/27		80	%	30 - 130
		F2 (C10-C16 Hydrocarbons)	2010/01/27	ND, RDL=10		ug/g	
		F3 (C16-C34 Hydrocarbons)	2010/01/27	ND, RDL=10		ug/g	
		F4 (C34-C50 Hydrocarbons)	2010/01/27	ND, RDL=10		ug/g	
	RPD	F2 (C10-C16 Hydrocarbons)	2010/01/27	NC		%	50
		F3 (C16-C34 Hydrocarbons)	2010/01/27	NC		%	50
		F4 (C34-C50 Hydrocarbons)	2010/01/27	NC		%	50
2065464 SPV	Matrix Spike	1,4-Difluorobenzene	2010/01/27		96	%	60 - 140
		4-Bromofluorobenzene	2010/01/27		101	%	60 - 140
		D10-Ethylbenzene	2010/01/27		80	%	30 - 130

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)
 Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2065464 SPV	Matrix Spike	D4-1,2-Dichloroethane	2010/01/27		104	%	60 - 140	
		F1 (C6-C10)	2010/01/27		118	%	60 - 140	
	Spiked Blank	1,4-Difluorobenzene	2010/01/27		99	%	60 - 140	
		4-Bromofluorobenzene	2010/01/27		101	%	60 - 140	
		D10-Ethylbenzene	2010/01/27		87	%	30 - 130	
		D4-1,2-Dichloroethane	2010/01/27		100	%	60 - 140	
	Method Blank	F1 (C6-C10)	2010/01/27		94	%	60 - 140	
		1,4-Difluorobenzene	2010/01/27		99	%	60 - 140	
		4-Bromofluorobenzene	2010/01/27		101	%	60 - 140	
		D10-Ethylbenzene	2010/01/27		88	%	30 - 130	
		D4-1,2-Dichloroethane	2010/01/27		101	%	60 - 140	
		F1 (C6-C10)	2010/01/27		ND, RDL=10		ug/g	
	RPD	F1 (C6-C10) - BTEX	2010/01/27		ND, RDL=10		ug/g	
		F1 (C6-C10)	2010/01/27		NC		%	50
F1 (C6-C10) - BTEX		2010/01/27		NC		%	50	
2066025 VIV	Matrix Spike	Acid Extractable Antimony (Sb)	2010/01/28		92	%	75 - 125	
		Acid Extractable Arsenic (As)	2010/01/28		97	%	75 - 125	
		Acid Extractable Barium (Ba)	2010/01/28		NC	%	75 - 125	
		Acid Extractable Beryllium (Be)	2010/01/28		103	%	75 - 125	
		Acid Extractable Boron (B)	2010/01/28		98	%	75 - 125	
		Acid Extractable Cadmium (Cd)	2010/01/28		99	%	75 - 125	
		Acid Extractable Chromium (Cr)	2010/01/28		94	%	75 - 125	
		Acid Extractable Cobalt (Co)	2010/01/28		95	%	75 - 125	
		Acid Extractable Copper (Cu)	2010/01/28		NC	%	75 - 125	
		Acid Extractable Lead (Pb)	2010/01/28		97	%	75 - 125	
		Acid Extractable Molybdenum (Mo)	2010/01/28		98	%	75 - 125	
		Acid Extractable Nickel (Ni)	2010/01/28		92	%	75 - 125	
		Acid Extractable Selenium (Se)	2010/01/28		94	%	75 - 125	
		Acid Extractable Silver (Ag)	2010/01/28		97	%	75 - 125	
		Acid Extractable Thallium (Tl)	2010/01/28		92	%	75 - 125	
		Acid Extractable Vanadium (V)	2010/01/28		NC	%	75 - 125	
		Acid Extractable Zinc (Zn)	2010/01/28		NC	%	75 - 125	
		QC Standard	Acid Extractable Mercury (Hg)	2010/01/28		111	%	75 - 125
	Acid Extractable Antimony (Sb)		2010/01/28		99	%	75 - 125	
	Acid Extractable Arsenic (As)		2010/01/28		100	%	75 - 125	
	Acid Extractable Barium (Ba)		2010/01/28		99	%	75 - 125	
	Acid Extractable Beryllium (Be)		2010/01/28		104	%	75 - 125	
	Acid Extractable Boron (B)		2010/01/28		110	%	75 - 125	
	Acid Extractable Cadmium (Cd)		2010/01/28		101	%	75 - 125	
	Acid Extractable Chromium (Cr)		2010/01/28		99	%	75 - 125	
	Acid Extractable Cobalt (Co)		2010/01/28		100	%	75 - 125	
	Acid Extractable Copper (Cu)		2010/01/28		99	%	75 - 125	
	Acid Extractable Lead (Pb)		2010/01/28		104	%	75 - 125	
	Acid Extractable Molybdenum (Mo)		2010/01/28		102	%	75 - 125	
	Acid Extractable Nickel (Ni)		2010/01/28		100	%	75 - 125	
	Acid Extractable Selenium (Se)		2010/01/28		99	%	75 - 125	
	Method Blank	Acid Extractable Silver (Ag)	2010/01/28		100	%	75 - 125	
		Acid Extractable Thallium (Tl)	2010/01/28		103	%	75 - 125	
		Acid Extractable Vanadium (V)	2010/01/28		97	%	75 - 125	
		Acid Extractable Zinc (Zn)	2010/01/28		103	%	75 - 125	
		Acid Extractable Mercury (Hg)	2010/01/28		107	%	75 - 125	
		Acid Extractable Antimony (Sb)	2010/01/28		ND, RDL=0.2		ug/g	
		Acid Extractable Arsenic (As)	2010/01/28		ND, RDL=1		ug/g	
		Acid Extractable Barium (Ba)	2010/01/28		ND, RDL=0.5		ug/g	
		Acid Extractable Beryllium (Be)	2010/01/28		ND, RDL=0.2		ug/g	

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
2066025 VIV	Method Blank	Acid Extractable Boron (B)	2010/01/28	ND, RDL=5		ug/g			
		Acid Extractable Cadmium (Cd)	2010/01/28	ND, RDL=0.1		ug/g			
		Acid Extractable Chromium (Cr)	2010/01/28	ND, RDL=1		ug/g			
		Acid Extractable Cobalt (Co)	2010/01/28	ND, RDL=0.1		ug/g			
		Acid Extractable Copper (Cu)	2010/01/28	ND, RDL=0.5		ug/g			
		Acid Extractable Lead (Pb)	2010/01/28	ND, RDL=1		ug/g			
		Acid Extractable Molybdenum (Mo)	2010/01/28	ND, RDL=0.5		ug/g			
		Acid Extractable Nickel (Ni)	2010/01/28	ND, RDL=0.5		ug/g			
		Acid Extractable Selenium (Se)	2010/01/28	ND, RDL=0.5		ug/g			
		Acid Extractable Silver (Ag)	2010/01/28	ND, RDL=0.2		ug/g			
		Acid Extractable Thallium (Tl)	2010/01/28	ND, RDL=0.05		ug/g			
		Acid Extractable Vanadium (V)	2010/01/28	ND, RDL=5		ug/g			
	Acid Extractable Zinc (Zn)	2010/01/28	ND, RDL=5		ug/g				
	RPD	Acid Extractable Mercury (Hg)	2010/01/28	ND, RDL=0.05		ug/g			
		Acid Extractable Antimony (Sb)	2010/01/28	NC		%	35		
		Acid Extractable Arsenic (As)	2010/01/28	NC		%	35		
		Acid Extractable Barium (Ba)	2010/01/28	1.4		%	35		
		Acid Extractable Beryllium (Be)	2010/01/28	NC		%	35		
		Acid Extractable Cadmium (Cd)	2010/01/28	NC		%	35		
		Acid Extractable Chromium (Cr)	2010/01/28	3.8		%	35		
		Acid Extractable Cobalt (Co)	2010/01/28	0.6		%	35		
		Acid Extractable Copper (Cu)	2010/01/28	2.8		%	35		
		Acid Extractable Lead (Pb)	2010/01/28	0.6		%	35		
		Acid Extractable Molybdenum (Mo)	2010/01/28	NC		%	35		
		Acid Extractable Nickel (Ni)	2010/01/28	5.3		%	35		
		Acid Extractable Selenium (Se)	2010/01/28	NC		%	35		
		Acid Extractable Silver (Ag)	2010/01/28	NC		%	35		
		Acid Extractable Thallium (Tl)	2010/01/28	NC		%	35		
		Acid Extractable Vanadium (V)	2010/01/28	NC		%	35		
		Acid Extractable Zinc (Zn)	2010/01/28	3.6		%	35		
		Acid Extractable Mercury (Hg)	2010/01/28	NC		%	35		
		2066242 DRM	Matrix Spike	Soluble (20:1) Chloride (Cl)	2010/01/28		104	%	75 - 125
			Spiked Blank	Soluble (20:1) Chloride (Cl)	2010/01/28		100	%	80 - 120
Method Blank			Soluble (20:1) Chloride (Cl)	2010/01/28	ND, RDL=20		ug/g		
RPD	Soluble (20:1) Chloride (Cl)		2010/01/28	NC		%	35		
2066254 CCI	Matrix Spike	Nitrite (N)	2010/01/28		94	%	75 - 125		
		Nitrate (N)	2010/01/28		107	%	75 - 125		
	Spiked Blank	Nitrite (N)	2010/01/28		98	%	75 - 125		
		Nitrate (N)	2010/01/28		112	%	75 - 125		
	Method Blank	Nitrite (N)	2010/01/28	ND, RDL=0.5		ug/g			
		Nitrate (N)	2010/01/28	ND, RDL=2		ug/g			
		Nitrate + Nitrite	2010/01/28	ND, RDL=3		ug/g			
	RPD	Nitrite (N)	2010/01/28	NC		%	25		
		Nitrate (N)	2010/01/28	NC		%	25		
		Nitrate + Nitrite	2010/01/28	NC		%	25		
2066269 PAL	QC Standard	Conductivity	2010/01/28		109	%	75 - 125		
	Method Blank	Conductivity	2010/01/28	ND, RDL=0.002		mS/cm			
	RPD	Conductivity	2010/01/28	4.6		%	35		

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.
 QC Standard: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
 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

AECOM Canada Ltd
Attention: Jason Cole
Client Project #: 60118979
P.O. #:
Project name: TTC SHEPPARD

Quality Assurance Report (Continued)

Maxxam Job Number: MB007987

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.

(1) The recovery was below the lower control limit. This may be due in part to the reducing environment of the sample.

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

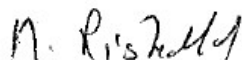
Validation Signature Page

Maxxam Job #: B007987

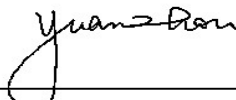
The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



CRISTINA CARRIERE, Scientific Services



MEDHAT RISKALLAH, Manager, Hydrocarbon Department



YUAN ZHOU, gc\ms Technician

=====

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. SCC and CALA have approved this reporting process and electronic report format.

Your Project #: 60118979
 Site: TTC SHEPPARD
 Your C.O.C. #: 00616878

Attention: Jason Cole

AECOM Canada Ltd
 300 Town Centre Blvd
 Suite 300
 Markham, ON
 L3R 5Z6

Report Date: 2010/02/10

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B014345

Received: 2010/02/05, 13:37

Sample Matrix: Soil
 # Samples Received: 14

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Petroleum Hydro. CCME F1 & BTEX in Soil	14	2010/02/06	2010/02/09	CAM SOP-00315	CCME CWS
MOISTURE	14	N/A	2010/02/09	CAM SOP-00445	McKeague 2nd ed 1978
Volatile Organic Compounds in Soil	8	2010/02/08	2010/02/09	CAM SOP-00226	EPA 8260 modified
Volatile Organic Compounds in Soil	6	2010/02/08	2010/02/10	CAM SOP-00226	EPA 8260 modified

Remarks:

U = Target analyte not detected at the EDL
 J = Target analyte not detected between the EDL and RDL

EDL = Estimated Detection Limit based on signal-to-noise.
 RDL = Reportable Detection Limit equivalent to the lowest calibration standard.

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

Encryption Key

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

MARIJANE CRUZ, Project Manager
 Email: Marijane.Cruz@maxxamanalytics.com
 Phone# (905) 817-5756

=====
 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. SCC and CALA have approved this reporting process and electronic report format.

For Service Group specific validation please refer to the Validation Signature Page

Total cover pages: 1

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

LOW LEVEL BTEX - TABLE 1, O'REG 153 (SOIL)

Maxxam ID		FA3316	FA3317	FA3318		
Sampling Date		2010/02/03 15:00	2010/02/04 08:00	2010/02/04 09:00		
COC Number		00616878	00616878	00616878		
	Units	MW1 SS6	MW2 SS5	MW3 SS5	RDL	QC Batch

Volatile Organics						
Benzene	ug/g	0.003	0.003	0.003	0.002	2074591
Ethylbenzene	ug/g	0.002	0.002	0.003	0.002	2074591
Toluene	ug/g	0.012	0.011	0.012	0.002	2074591
p+m-Xylene	ug/g	0.011	0.010	0.010	0.002	2074591
o-Xylene	ug/g	0.003	0.002	0.003	0.002	2074591
Xylene (Total)	ug/g	0.014	0.012	0.013	0.002	2074591
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	92	93	93		2074591
D4-1,2-Dichloroethane	%	97	100	97		2074591
D8-Toluene	%	109	107	108		2074591

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

LOW LEVEL BTEX - TABLE 1, O'REG 153 (SOIL)

Maxxam ID		FA3319	FA3320	FA3321		
Sampling Date		2010/02/04 09:30	2010/02/04 10:30	2010/02/04 11:00		
COC Number		00616878	00616878	00616878		
	Units	MW6 SS9	MW7 SS8	TP1-1	RDL	QC Batch

Volatile Organics						
Benzene	ug/g	0.002	0.002	0.003	0.002	2074591
Ethylbenzene	ug/g	0.002	0.002	0.005	0.002	2074591
Toluene	ug/g	0.010	0.009	0.015	0.002	2074591
p+m-Xylene	ug/g	0.009	0.010	0.011	0.002	2074591
o-Xylene	ug/g	0.002	0.003	0.003	0.002	2074591
Xylene (Total)	ug/g	0.012	0.013	0.015	0.002	2074591
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	90	89	92		2074591
D4-1,2-Dichloroethane	%	97	97	94		2074591
D8-Toluene	%	108	110	111		2074591
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

LOW LEVEL BTEX - TABLE 1, O'REG 153 (SOIL)

Maxxam ID		FA3322	FA3323	FA3324		
Sampling Date		2010/02/04 11:13	2010/02/04 11:30	2010/02/04 11:45		
COC Number		00616878	00616878	00616878		
	Units	TP1-9	TP2-2	TP4-1	RDL	QC Batch

Volatile Organics						
Benzene	ug/g	0.003	0.002	ND	0.002	2074591
Ethylbenzene	ug/g	0.004	0.003	ND	0.002	2074591
Toluene	ug/g	0.013	0.010	0.003	0.002	2074591
p+m-Xylene	ug/g	0.010	0.008	ND	0.002	2074591
o-Xylene	ug/g	0.003	0.002	ND	0.002	2074591
Xylene (Total)	ug/g	0.013	0.010	ND	0.002	2074591
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	92	95	84		2074591
D4-1,2-Dichloroethane	%	97	98	97		2074591
D8-Toluene	%	108	104	112		2074591

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

LOW LEVEL BTEX - TABLE 1, O'REG 153 (SOIL)

Maxxam ID		FA3325	FA3326	FA3327		
Sampling Date		2010/02/04 12:00	2010/02/04 09:15	2010/02/04 13:00		
COC Number		00616878	00616878	00616878		
	Units	TP3-2	MW3 SS9	MW5 SS9	RDL	QC Batch

Volatile Organics						
Benzene	ug/g	0.003	0.002	0.003	0.002	2074591
Ethylbenzene	ug/g	0.005	0.002	0.003	0.002	2074591
Toluene	ug/g	0.013	0.010	0.012	0.002	2074591
p+m-Xylene	ug/g	0.011	0.009	0.012	0.002	2074591
o-Xylene	ug/g	0.003	0.002	0.003	0.002	2074591
Xylene (Total)	ug/g	0.014	0.012	0.015	0.002	2074591
Surrogate Recovery (%)						
4-Bromofluorobenzene	%	96	93	90		2074591
D4-1,2-Dichloroethane	%	100	96	95		2074591
D8-Toluene	%	103	108	112		2074591
RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

LOW LEVEL BTEX - TABLE 1, O'REG 153 (SOIL)

Maxxam ID		FA3328	FA3329		
Sampling Date		2010/02/04 14:00	2010/02/04 15:00		
COC Number		00616878	00616878		
	Units	TP5-2	MW4 SS10	RDL	QC Batch

Volatile Organics					
Benzene	ug/g	0.003	0.002	0.002	2074591
Ethylbenzene	ug/g	0.004	0.002	0.002	2074591
Toluene	ug/g	0.011	0.010	0.002	2074591
p+m-Xylene	ug/g	0.009	0.009	0.002	2074591
o-Xylene	ug/g	0.002	0.002	0.002	2074591
Xylene (Total)	ug/g	0.011	0.011	0.002	2074591
Surrogate Recovery (%)					
4-Bromofluorobenzene	%	95	92		2074591
D4-1,2-Dichloroethane	%	99	101		2074591
D8-Toluene	%	105	108		2074591
RDL = Reportable Detection Limit QC Batch = Quality Control Batch					

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		FA3316	FA3316	FA3317	FA3318		
Sampling Date		2010/02/03 15:00	2010/02/03 15:00	2010/02/04 08:00	2010/02/04 09:00		
COC Number		00616878	00616878	00616878	00616878		
	Units	MW1 SS6	MW1 SS6 Lab-Dup	MW2 SS5	MW3 SS5	RDL	QC Batch

Inorganics							
Moisture	%	9.6	9.0	8.1	6.0	0.2	2074716
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam ID		FA3319	FA3320	FA3321	FA3322		
Sampling Date		2010/02/04 09:30	2010/02/04 10:30	2010/02/04 11:00	2010/02/04 11:13		
COC Number		00616878	00616878	00616878	00616878		
	Units	MW6 SS9	MW7 SS8	TP1-1	TP1-9	RDL	QC Batch

Inorganics							
Moisture	%	7.1	8.8	6.3	7.8	0.2	2074716
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam ID		FA3323	FA3324	FA3325	FA3326		
Sampling Date		2010/02/04 11:30	2010/02/04 11:45	2010/02/04 12:00	2010/02/04 09:15		
COC Number		00616878	00616878	00616878	00616878		
	Units	TP2-2	TP4-1	TP3-2	MW3 SS9	RDL	QC Batch

Inorganics							
Moisture	%	6.8	17	7.2	7.0	0.2	2074716
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

RESULTS OF ANALYSES OF SOIL

Maxxam ID		FA3327	FA3328	FA3329		
Sampling Date		2010/02/04 13:00	2010/02/04 14:00	2010/02/04 15:00		
COC Number		00616878	00616878	00616878		
	Units	MW5 SS9	TP5-2	MW4 SS10	RDL	QC Batch

Inorganics						
Moisture	%	5.8	15	5.7	0.2	2074716

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B014345
 Report Date: 2010/02/10

 AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FA3316	FA3316	FA3317		
Sampling Date		2010/02/03 15:00	2010/02/03 15:00	2010/02/04 08:00		
COC Number		00616878	00616878	00616878		
	Units	MW1 SS6	MW1 SS6 Lab-Dup	MW2 SS5	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	2074651
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	2074651
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	98	96	95		2074651
4-Bromofluorobenzene	%	106	109	105		2074651
D10-Ethylbenzene	%	101	101	95		2074651
D4-1,2-Dichloroethane	%	92	93	91		2074651
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam ID		FA3318	FA3319	FA3320		
Sampling Date		2010/02/04 09:00	2010/02/04 09:30	2010/02/04 10:30		
COC Number		00616878	00616878	00616878		
	Units	MW3 SS5	MW6 SS9	MW7 SS8	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	2074651
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	2074651
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	102	99	103		2074651
4-Bromofluorobenzene	%	108	105	109		2074651
D10-Ethylbenzene	%	108	102	108		2074651
D4-1,2-Dichloroethane	%	96	91	94		2074651
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: B014345
 Report Date: 2010/02/10

 AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FA3321	FA3322	FA3323		
Sampling Date		2010/02/04 11:00	2010/02/04 11:13	2010/02/04 11:30		
COC Number		00616878	00616878	00616878		
	Units	TP1-1	TP1-9	TP2-2	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	2074651
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	2074651
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	96	98	101		2074651
4-Bromofluorobenzene	%	105	106	110		2074651
D10-Ethylbenzene	%	103	105	110		2074651
D4-1,2-Dichloroethane	%	93	94	94		2074651

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam ID		FA3324	FA3325	FA3326		
Sampling Date		2010/02/04 11:45	2010/02/04 12:00	2010/02/04 09:15		
COC Number		00616878	00616878	00616878		
	Units	TP4-1	TP3-2	MW3 SS9	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	2074651
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	2074651
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	95	99	99		2074651
4-Bromofluorobenzene	%	102	105	101		2074651
D10-Ethylbenzene	%	99	103	106		2074651
D4-1,2-Dichloroethane	%	89	95	93		2074651

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B014345
 Report Date: 2010/02/10

AECOM Canada Ltd
 Client Project #: 60118979
 Project name: TTC SHEPPARD
 Sampler Initials: JC

PETROLEUM HYDROCARBONS (CCME)

Maxxam ID		FA3327	FA3328	FA3329		
Sampling Date		2010/02/04 13:00	2010/02/04 14:00	2010/02/04 15:00		
COC Number		00616878	00616878	00616878		
	Units	MW5 SS9	TP5-2	MW4 SS10	RDL	QC Batch

BTEX & F1 Hydrocarbons						
F1 (C6-C10)	ug/g	ND	ND	ND	10	2074651
F1 (C6-C10) - BTEX	ug/g	ND	ND	ND	10	2074651
Surrogate Recovery (%)						
1,4-Difluorobenzene	%	98	101	98		2074651
4-Bromofluorobenzene	%	102	105	107		2074651
D10-Ethylbenzene	%	100	112	105		2074651
D4-1,2-Dichloroethane	%	92	100	94		2074651

ND = Not detected
 RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch

Maxxam Job #: B014345
Report Date: 2010/02/10

AECOM Canada Ltd
Client Project #: 60118979
Project name: TTC SHEPPARD
Sampler Initials: JC

Package 1	4.0°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.

Results relate only to the items tested.

AECOM Canada Ltd
 Attention: Jason Cole
 Client Project #: 60118979
 P.O. #:
 Project name: TTC SHEPPARD

Quality Assurance Report
 Maxxam Job Number: MB014345

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
2074591 AH	Matrix Spike	4-Bromofluorobenzene	2010/02/09		98	%	60 - 140	
		D4-1,2-Dichloroethane	2010/02/09		95	%	60 - 140	
		D8-Toluene	2010/02/09		102	%	60 - 140	
		Benzene	2010/02/09		87	%	39 - 137	
		Ethylbenzene	2010/02/09		106	%	46 - 150	
		Toluene	2010/02/09		81	%	30 - 158	
		p+m-Xylene	2010/02/09		89	%	29 - 161	
		o-Xylene	2010/02/09		94	%	45 - 150	
		Spiked Blank	4-Bromofluorobenzene	2010/02/09		102	%	60 - 140
			D4-1,2-Dichloroethane	2010/02/09		101	%	60 - 140
	D8-Toluene		2010/02/09		99	%	60 - 140	
	Benzene		2010/02/09		98	%	60 - 140	
	Ethylbenzene		2010/02/09		94	%	60 - 140	
	Toluene		2010/02/09		90	%	60 - 140	
	p+m-Xylene		2010/02/09		90	%	60 - 140	
	o-Xylene		2010/02/09		93	%	60 - 140	
	Method Blank		4-Bromofluorobenzene	2010/02/09		101	%	60 - 140
			D4-1,2-Dichloroethane	2010/02/09		90	%	60 - 140
		D8-Toluene	2010/02/09		99	%	60 - 140	
		Benzene	2010/02/09	ND, RDL=0.002			ug/g	
		Ethylbenzene	2010/02/09	ND, RDL=0.002			ug/g	
		Toluene	2010/02/09	ND, RDL=0.002			ug/g	
		p+m-Xylene	2010/02/09	ND, RDL=0.002			ug/g	
		o-Xylene	2010/02/09	ND, RDL=0.002			ug/g	
		Xylene (Total)	2010/02/09	ND, RDL=0.002			ug/g	
		RPD	Benzene	2010/02/09		NC		%
	Ethylbenzene		2010/02/09		NC		%	50
	Toluene		2010/02/09		11.7		%	50
	p+m-Xylene		2010/02/09		NC		%	50
	o-Xylene		2010/02/09		NC		%	50
Xylene (Total)	2010/02/09			9.0		%	50	
2074651 DCA	Matrix Spike [FA3316-01]	1,4-Difluorobenzene	2010/02/09		106	%	60 - 140	
		4-Bromofluorobenzene	2010/02/09		103	%	60 - 140	
		D10-Ethylbenzene	2010/02/09		108	%	30 - 130	
		D4-1,2-Dichloroethane	2010/02/09		98	%	60 - 140	
		F1 (C6-C10)	2010/02/09		109	%	60 - 140	
	Spiked Blank	1,4-Difluorobenzene	2010/02/09		100	%	60 - 140	
		4-Bromofluorobenzene	2010/02/09		104	%	60 - 140	
		D10-Ethylbenzene	2010/02/09		98	%	30 - 130	
		D4-1,2-Dichloroethane	2010/02/09		91	%	60 - 140	
		F1 (C6-C10)	2010/02/09		103	%	60 - 140	
	Method Blank	1,4-Difluorobenzene	2010/02/09		101	%	60 - 140	
		4-Bromofluorobenzene	2010/02/09		108	%	60 - 140	
		D10-Ethylbenzene	2010/02/09		102	%	30 - 130	
		D4-1,2-Dichloroethane	2010/02/09		87	%	60 - 140	
		F1 (C6-C10)	2010/02/09	ND, RDL=10			ug/g	
		F1 (C6-C10) - BTEX	2010/02/09	ND, RDL=10			ug/g	
RPD [FA3316-01]	F1 (C6-C10)	2010/02/09		NC		%	50	
	F1 (C6-C10) - BTEX	2010/02/09		NC		%	50	
2074716 AC	RPD [FA3316-01]	Moisture	2010/02/09	6.5		%	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.

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Quality Assurance Report (Continued)

Maxxam Job Number: MB014345

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 #: B014345

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

Suzana Popovic

SUZANA POPOVIC, Supervisor, Hydrocarbons

Troy Carriere



TROY CARRIERE, B.Sc., C.Chem, Scientific Specialist

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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. SCC and CALA have approved this reporting process and electronic report format.