



July 14, 2006

Michael J. Hinton, P.E.
Division of Environmental Remediation
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2999

**Subject: Quarterly Groundwater Gauging Report
Booth Oil Site
North Tonawanda, New York
NYSDEC Site No. 9-32-100**

Mr. Hinton:

On behalf of the Booth Oil Site Administrative Group (BOSAG), AMEC Earth and Environmental, Inc. (AMEC) presents this *Quarterly Groundwater Gauging Report* for the above referenced site (**Figure 1**). The groundwater gauging event was performed on June 27, 2006. Work was performed according to the approved site Operations and Maintenance Plan. The following sections of this report discuss the observations and activities completed during the gauging event.

GROUNDWATER GAUGING

Shallow overburden monitoring wells MW-101 through MW-104 were gauged for depth-to-water and light non-aqueous phase liquid (LNAPL) during the June 27, 2006 site visit. A summary of the gauging results is presented in **Table 1**.

The depth-to-water results of the gauging event were utilized to develop a groundwater contour map (**Figure 2**). As illustrated on **Figure 2**, groundwater during the June 2006 monitoring event was projected to flow towards the south.

No LNAPL was observed in any of the wells.

SURFACE SITE CONDITIONS

An inspection of the surface conditions at the Site was conducted during the June 27, 2006 gauging event.

Prior to the site inspection, AMEC had coordinated the installation of new sediment control devices such as erosion control mats and seeding in the drainage ditches. In addition, new silt fencing that was placed around the catch basin at the southern end of the ditch. This work was

completed on May 2, 2006 and conducted to repair those E&S controls around the catch basin that had fallen into disrepair and improve the quality of the ditch line.

No significant signs of erosion were noted and the grass was well maintained. A photographic log of the Site conditions has been included as **Attachment 1**.

SURFACE WATER SAMPLING

Surface water runoff was collected and sampled on April 4, 2006. The sample was collected following a rain event and analyzed for poly-aromatic hydrocarbons (PAHs), poly-chlorinated biphenyls (PCBs) and total suspended solids (TSS). There were no detections for PAHs, PCBs, or TSS. Samples were analyzed by Severn Trent Laboratories of Amherst, NY. The analytical report has been included as **Attachment 2**.

SUMMARY

The groundwater elevation data indicates groundwater flow is to the south. This is consistent with previous groundwater flow directions which generally range from southwest to northwest. No LNAPL was present in any of the wells gauged.

During the gauging event, no new erosional features were noted. In general, the Site appeared well maintained. New erosion mats and silt fencing were installed at the site to prevent significant erosion from occurring within the ditch line and around the catch basin.

Surface Water samples collected at the Site had no detections for PAHs, PCBs or TSS.

Should you have any questions or comments concerning this report, please contact me or Tim Ahrens at (518) 372-0905. I can also be contacted by email at Jeffrey.LaRock@amec.com and Tim Ahrens can be contacted by email at Tim.Ahrens@amec.com.

Sincerely,
AMEC Earth and Environmental Inc.



Jeffrey W. LaRock
Project Geologist



Marie T. Dowd, P.E.
Environmental Engineer

cc: BOSAG Steering Committee
BOSAG Technical Committee
Paul J. Kurzanski, CSXT
Gary Litwin, NYSDOH
Matthew J. Forcucci, NYSDOH

TABLES

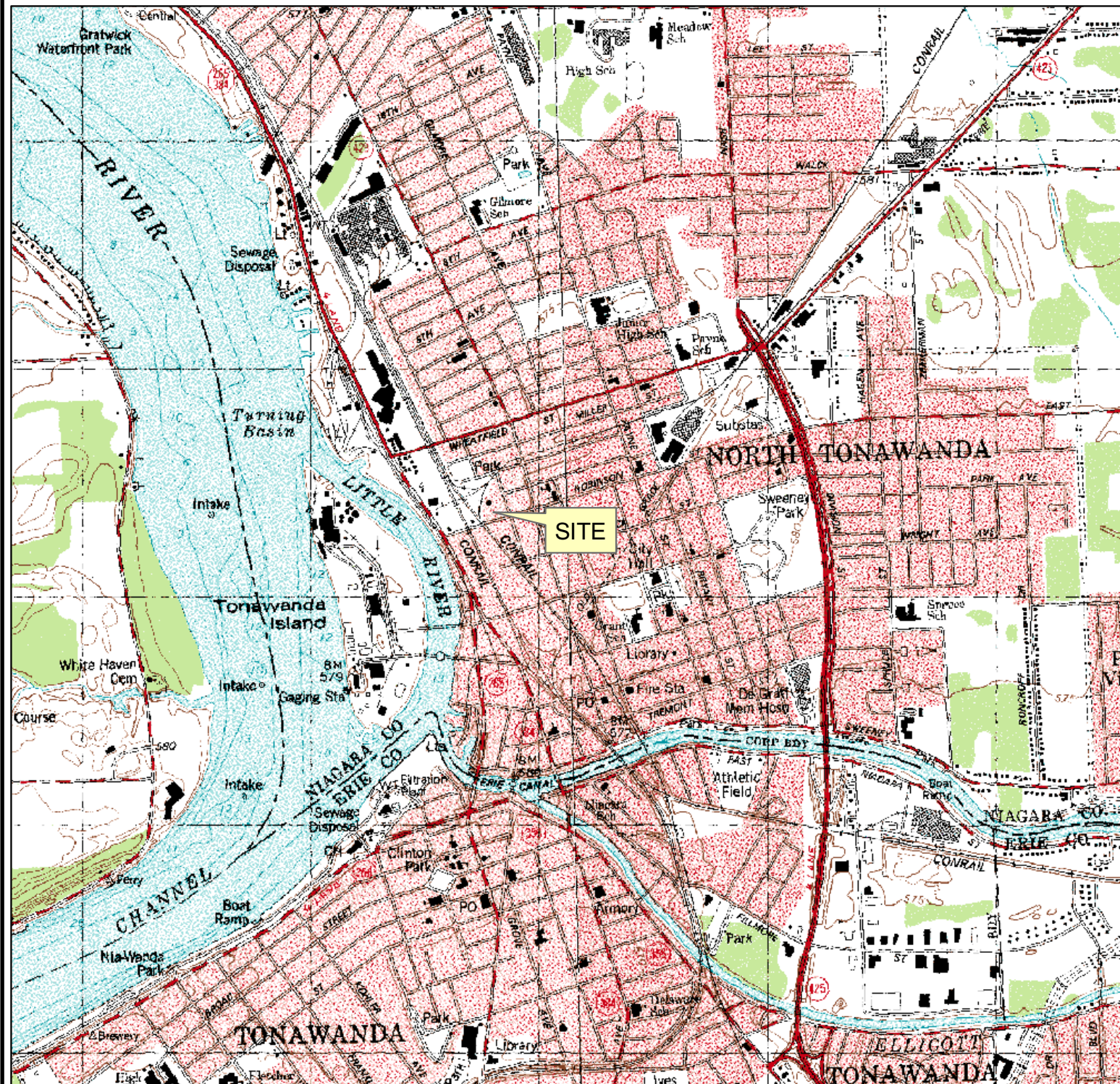
GROUNDWATER GAUGING RESULTS
TABLE 1

	Units	MW-101	MW-102	MW-103	MW-104
Top of Casing Elevation	ft-msl	579.2	579.66	579.84	580.6
Ground Surface Elevation	ft-msl	576.5	576.6	576.9	577.7
Stickup	feet	2.72	3.02	2.9	2.9
Depth to Top of Screen	ft-bgs	2.5	3	4.1	3.7
Top of Screen Elevation	ft-msl	574	573.6	572.8	574
Depth to Top of Clay	ft-bgs	4.9	6	6.5	5.9
Top of Clay Elevation	ft-msl	571.6	570.6	570.4	571.8
Depth to Bottom of Screen	ft-bgs	7.5	8	9.1	8.7
Bottom of Screen Elevation	ft-msl	569	568.6	567.8	569
18-Oct-04					
Depth to Groundwater	ft-toc	Dry	Dry	Dry	Dry
Groundwater Elevation	ft-msl	Dry	Dry	Dry	Dry
Depth to Groundwater	ft-bgs	Dry	Dry	Dry	Dry
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	--	--	--	--
Saturated Thickness above Clay	feet	0	0	0	0
13-Dec-04					
Depth to Groundwater	ft-toc	5.34	10.1	8.48	5.48
Groundwater Elevation	ft-msl	573.86	569.56	571.36	575.12
Depth to Groundwater	ft-bgs	2.62	7.08	5.58	2.58
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	Yes	Yes	Yes	No, High
Saturated Thickness above Clay	feet	2.28	-1.08	0.92	3.32
30-Mar-05					
Depth to Groundwater	ft-toc	4.51	8.39	Dry	Dry
Groundwater Elevation	ft-msl	574.69	571.27	Dry	Dry
Depth to Groundwater	ft-bgs	1.79	5.37	Dry	Dry
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	No, High	Yes	--	--
Saturated Thickness above Clay	feet	3.09	0.67	0	0
22-Jun-05					
Depth to Groundwater	ft-toc	6.77	6.75	8.5	8.59
Groundwater Elevation	ft-msl	572.43	572.91	571.34	572.01
Depth to Groundwater	ft-bgs	4.07	3.69	5.56	5.69
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.83	2.31	0.94	0.21
14-Sep-05					
Depth to Groundwater	ft-toc	6.69	10.37	8.76	9.63
Groundwater Elevation	ft-msl	572.51	569.29	571.08	570.97
Depth to Groundwater	ft-bgs	3.99	7.31	5.82	6.73
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.91	-1.31	0.68	-0.83

GROUNDWATER GAUGING RESULTS
TABLE 1

01-Dec-05					
Depth to Groundwater	ft-toc	4.55	10.6	8.55	6.35
Groundwater Elevation	ft-msl	574.65	569.06	571.29	574.25
Depth to Groundwater	ft-bgs	1.85	7.54	5.61	3.45
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	No, High	Yes	Yes	No, High
Saturated Thickness above Clay	feet	3.05	-1.54	0.89	2.45
23-Mar-06					
Depth to Groundwater	ft-toc	5.36	6.84	8.49	5.42
Groundwater Elevation	ft-msl	573.84	572.82	571.35	575.18
Depth to Groundwater	ft-bgs	2.66	3.78	5.55	2.52
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	Yes	Yes	Yes	No, High
Saturated Thickness above Clay	feet	2.24	2.22	0.95	3.38
27-Jun-06					
Depth to Groundwater	ft-toc	6.92	7.54	8.59	9.12
Groundwater Elevation	ft-msl	572.28	572.12	571.25	571.48
Depth to Groundwater	ft-bgs	4.22	4.48	5.65	6.22
Was LNAPL Present?	--	No	No	No	No
Was Groundwater Table within					
Screened Interval?	--	Yes	Yes	Yes	Yes
Saturated Thickness above Clay	feet	0.68	1.52	0.85	-0.32

FIGURES



Public Safety
& Environment

Booth Oil Site
88 Robinson Street
North Tonawanda, NY
Site Location Map

Niagara County

New York

LOCATOR



NOTES & SOURCES

Quadrangle Name: Tonawanda East NY
Map Source Date: 1 July 1995
Source: USGS
Projection: NAD 83 UTM Zone 17N
Map Created: 4 May 2005

0 2,000
Feet



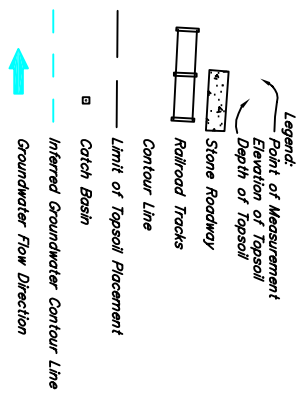
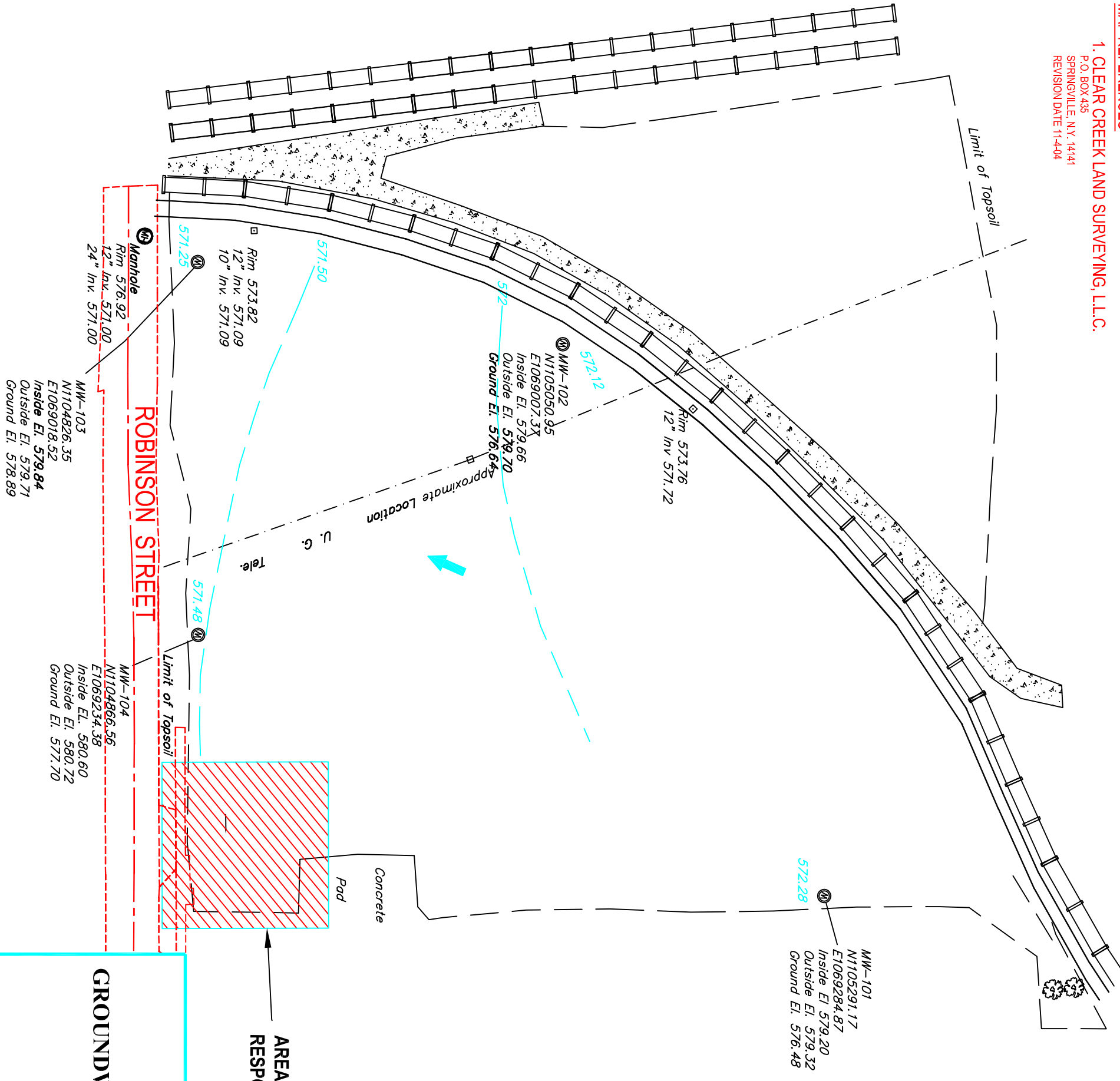
AMEC Earth & Environmental, Inc.
Westford, Massachusetts

FIGURE

1

MAP REFERENCES

1. CLEAR CREEK LAND SURVEYING, L.L.C.
P.O. BOX 435
SPRINGVILLE, N.Y. 14141
REVISION DATE 11-4-04



~Note~
1. Groundwater contour lines are inferred from four (4) groundwater elevations points documented during the June 27, 2006 quarterly groundwater monitoring event.
2. Elevations shown refer to NAVD 88 vertical datum.
Grid shown as provided by contractor.
New York State Plane Horizontal Coordinates shown refer to NAD 83 (1984) NYS West Zone.
3. Alterations or additions to a survey bearing a licensed surveyors signature or seal, is illegal.

Groundwater Elevation Historical Data					
Gauging Date	Units	MW-101	MW-102	MW-103	MW-104
18-Oct-04	ft-msl	Dry	Dry	Dry	Dry
13-Dec-04	ft-msl	573.86	569.56	571.36	575.12
30-Mar-05	ft-msl	574.69	571.27	Dry	Dry
22-Jun-05	ft-msl	572.43	572.91	571.34	572.01
14-Sep-05	ft-msl	572.51	569.29	571.08	570.97
01-Dec-05	ft-msl	574.65	569.06	571.29	574.25
23-Mar-06	ft-msl	573.84	572.82	571.35	575.18
27-Jun-06	ft-msl	572.28	572.12	571.25	571.48

AREA OF SPILL
RESPONSE ACTIVITIES.

FIGURE 2

GROUNDWATER CONTOUR MAP

SCALE = 1"=150'
DATE: 7/12/06

QUARTERLY GROUNDWATER
GAUGING REPORT
N.Y.S.D.E.C. SPILL NO. 0375504
NORTH TONAWANDA, NEW YORK



ATTACHMENTS



Photo # 1

Booth Oil Site, Facing Southwest towards Robinson Street.



Photo # 2

Booth Oil Site, Facing West



155 Erie Blvd. Edison Plaza
Schenectady, New York 12305

W.O.	64300-8553
PROCESSED	JWL
DATE	June 2006
PAGE	1

BOOTH OIL
SITE RECONNAISSANCE
BUFFALO, NY
CSX TRANSPORTATION

PHOTOGRAPH LOG



Photo # 3

Booth Oil Site, Facing North



Photo # 4

View of Site facing East.



155 Erie Blvd. Edison Plaza
Schenectady, New York 12305

W.O. 64300-8553
PROCESSED JWL
DATE June 2006
PAGE 2

BOOTH OIL
SITE RECONNAISSANCE
BUFFALO, NY
CSX TRANSPORTATION

PHOTOGRAPH LOG



Photo # 5
View of the drainage
ditch. New erosion
matting visible on
left side of the
picture.



Photo # 6
View of the Site,
Facing Southeast.



155 Erie Blvd. Edison Plaza
 Schenectady, New York 12305

W.O. 64300-8553
 PROCESSED JWL
 DATE June 2006
 PAGE 3

BOOTH OIL
 SITE RECONNAISSANCE
 BUFFALO, NY
 CSX TRANSPORTATION

PHOTOGRAPH LOG

**SEVERN
TRENT****STL****STL Buffalo**10 Hazelwood Drive, Suite 106
Amherst, NY 14228Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

ANALYTICAL REPORT

Job#: A06-3493

STL Project#: NY3A9047

Site Name: AMEC-CSXT

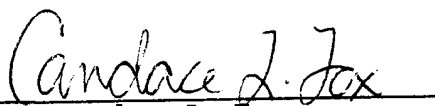
Task: 9734605/ENV000005096/Booth Oil Site, N.Tonawanda

RECEIVED
APR 18 2006

BY: _____

Tim Ahrens
AMEC
155 Erie Blvd.
Schenectady, NY 12305

STL Buffalo


Candace L. Fox
Project Manager

04/13/2006

STL Buffalo Current Certifications

As of 3/15/2006

STATE	Program	Cert # / Lab ID
AFCEE	AFCEE	
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA, ASP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	68-281
South Carolina	RCRA	91013
Tennessee	SDWA	02970
USACE	USACE	
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
West Virginia	CWA, RCRA	252
Wisconsin	CWA	998310390

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A6349301	BOOTH 0.1 CB-1	SW	04/04/2006	08:30	04/04/2006	12:20

METHODS SUMMARY

Job#: A06-3493STL Project#: NY3A9047Site Name: AMEC-CSXT

PARAMETER	ANALYTICAL METHOD
METHOD 625 - PAH's	CFR136 625
METHOD 608 - POLYCHLORINATED BIPHENYLS	CFR136 608
Total Suspended Solids	MCAWW 160.2

CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

NON-CONFORMANCE SUMMARY

Job#: A06-3493STL Project#: NY3A9047Site Name: AMEC-CSXTGeneral Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A06-3493

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

For method 608, the Matrix Spike Blank Duplicate recovery for Aroclor 1260 is above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
 - J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
 - N Indicates spike sample recovery is not within the quality control limits.
 - S Indicates value determined by the Method of Standard Addition.
 - E Indicates a value estimated or not reported due to the presence of interferences.
 - H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
 - * Indicates the spike or duplicate analysis is not within the quality control limits.
 - +
- Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 06/13/2006
Time: 12:01:07

AMEC-CSXT
9734605/ENV000005096/Booth Oil site, N.Tonawanda
METHOD 625 - PAH'S

Rept: AN0326

Client ID	Lab ID	BOOTH 0.1 CB-1 A06-3493 04/04/2006	A6349301	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
benzophenanthrene	UG/L	ND	9.4	NA		NA		NA		NA	
benzofluoranthene	UG/L	ND	9.4	NA		NA		NA		NA	
benzanthracene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(a)anthracene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(b)fluoranthene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(k)fluoranthene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(ghi)perylene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(a)pyrene	UG/L	ND	9.4	NA		NA		NA		NA	
chrysene	UG/L	ND	9.4	NA		NA		NA		NA	
benzo(a,h)anthracene	UG/L	ND	9.4	NA		NA		NA		NA	
luoranthene	UG/L	ND	9.4	NA		NA		NA		NA	
luorene	UG/L	ND	9.4	NA		NA		NA		NA	
indeno(1,2,3-cd)pyrene	UG/L	ND	9.4	NA		NA		NA		NA	
1-Methylnaphthalene	UG/L	ND	9.4	NA		NA		NA		NA	
naphthalene	UG/L	ND	9.4	NA		NA		NA		NA	
phenanthrene	UG/L	ND	9.4	NA		NA		NA		NA	
pyrene	UG/L	ND	9.4	NA		NA		NA		NA	
1,2,3,4,5,6-hexachlorobenzene-D10	%	99	50-200	NA		NA		NA		NA	
1,2,3,4,5,6-hexachlorobenzene-D8	%	98	50-200	NA		NA		NA		NA	
1,2,3,4,5,6-hexachlorobenzene-D12	%	107	50-200	NA		NA		NA		NA	
1,2,3,4,5,6,7,8-octachlorobenzene-D4	%	101	50-200	NA		NA		NA		NA	
1,2,3,4,5,6,7,8-octachlorobenzene-D10	%	98	50-200	NA		NA		NA		NA	
1,2,3,4,5,6,7,8-octachlorobenzene-D12	%	88	50-200	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D5	%	75	47-120	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D10	%	82	45-120	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D14	%	97	36-141	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D5	%	27	10-120	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D10	%	39	19-120	NA		NA		NA		NA	
1,2,3,4,5,6,7,8,9-nonachlorobenzene-D14	%	109	55-124	NA		NA		NA		NA	

Date: 04/13/2006
Time: 12:01:10

AMEC-CSXT

Rept: AN0326

9734605/ENV000005096/Booth Oil Site, N.Tonawanda
METHOD 608 - POLYCHLORINATED BIPHENYLS

Client ID Job No Sample Date	Lab ID	BOOTH 0.1 CB-1 A06-3493 04/04/2006	A6349301	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Aroclor 1016	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1221	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1232	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1242	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1248	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1254	UG/L	ND	0.047	NA		NA		NA	
Aroclor 1260	UG/L	ND	0.047	NA		NA		NA	
SURROGATE(S)									
Tetrachloro-m-xylene	%	82	22-119	NA		NA		NA	
Decachlorobiphenyl	%	78	30-135	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

8/28

9/28

Date: 04/13/2006
 Time: 12:01:14
 AMEC-CSXT
 9734605/ENV000005096/Booth Oil Site, N.Tonawanda
 WET CHEMISTRY ANALYSIS
 Rept: AN0326

Client ID Job No Sample Date	Lab ID	BOOTH 0.1 CB-1 A06-3493 04/04/2006		A6349301					
		Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	
Total Suspended Solids		Mg/L	ND	4.0	NA		NA		NA

Chronology and QC Summary Package

Rept: AN0326

STL Buffalo

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	S-BLANK A06-3493		A6B1650903							
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
		naphthalene	ug/L	ND	10	NA		NA		NA	
		acenaphthylene	ug/L	ND	10	NA		NA		NA	
		anthracene	ug/L	ND	10	NA		NA		NA	
		benzo(a)anthracene	ug/L	ND	10	NA		NA		NA	
		benzo(b)fluoranthene	ug/L	ND	10	NA		NA		NA	
		benzo(k)fluoranthene	ug/L	ND	10	NA		NA		NA	
		benzo(ghi)perylene	ug/L	ND	10	NA		NA		NA	
		benzo(a)pyrene	ug/L	ND	10	NA		NA		NA	
		biphenyl	ug/L	ND	10	NA		NA		NA	
		benzo(a,h)anthracene	ug/L	ND	10	NA		NA		NA	
		fluoranthene	ug/L	ND	10	NA		NA		NA	
		luorene	ug/L	ND	10	NA		NA		NA	
		indeno(1,2,3-cd)pyrene	ug/L	ND	10	NA		NA		NA	
		1-Methylnaphthalene	ug/L	ND	10	NA		NA		NA	
		naphthalene	ug/L	ND	10	NA		NA		NA	
		phenanthrene	ug/L	ND	10	NA		NA		NA	
		pyrene	ug/L	ND	10	NA		NA		NA	
		<u>IS/SURROGATE(S)</u>									
		phenanthrene-D10	%	101	50-200	NA		NA		NA	
		naphthalene-D8	%	106	50-200	NA		NA		NA	
		terephthalene-D12	%	116	50-200	NA		NA		NA	
		1,4-dichlorobenzene-D4	%	110	50-200	NA		NA		NA	
		acenaphthene-D10	%	100	50-200	NA		NA		NA	
		chrysene-D12	%	102	50-200	NA		NA		NA	
		p-tetraphenyl-D5	%	73	47-120	NA		NA		NA	
		2-fluorobiphenyl	%	78	45-120	NA		NA		NA	
		p-Terphenyl-D14	%	115	36-141	NA		NA		NA	
		phenol-D5	%	29	10-120	NA		NA		NA	
		2-fluorophenol	%	41	19-120	NA		NA		NA	
		2,4,6-Tribromophenol	%	101	55-124	NA		NA		NA	

Date: 04/13/2006
Time: 12:01:23

AMEC-CSXT

9734605/ENV000005096/Booth oil site, N.Tonawanda
METHOD 625 - PAH'S

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A06-3493 A681650901		Matrix Spike Blk Dup A06-3493 A681650902		Reporting Limit		Reporting Limit	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/L	46	10	40	10	NA		NA	
Acenaphthylene	UG/L	45	10	39	10	NA		NA	
Anthracene	UG/L	51	10	46	10	NA		NA	
Benzo(a)anthracene	UG/L	52	10	48	10	NA		NA	
Benzo(b)fluoranthene	UG/L	51	10	48	10	NA		NA	
Benzo(k)fluoranthene	UG/L	50	10	47	10	NA		NA	
Benzo(ghi)perylene	UG/L	63	10	58	10	NA		NA	
Benzo(a)pyrene	UG/L	50	10	47	10	NA		NA	
Chrysene	UG/L	51	10	47	10	NA		NA	
Dibenzo(a,h)anthracene	UG/L	60	10	54	10	NA		NA	
Fluoranthene	UG/L	48	10	47	10	NA		NA	
Fluorene	UG/L	50	10	44	10	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	61	10	56	10	NA		NA	
2-Methylnaphthalene	UG/L	40	10	35	10	NA		NA	
Naphthalene	UG/L	38	10	33	10	NA		NA	
Phenanthrene	UG/L	49	10	45	10	NA		NA	
Pyrene	UG/L	59	10	55	10	NA		NA	
<u>IS/SURROGATE(S)</u>									
Phenanthrene-D10	%	108	50-200	107	50-200	NA		NA	
Naphthalene-D8	%	108	50-200	104	50-200	NA		NA	
Perylene-D12	%	114	50-200	113	50-200	NA		NA	
1,4-Dichlorobenzene-D4	%	105	50-200	105	50-200	NA		NA	
Acenaphthene-D10	%	107	50-200	104	50-200	NA		NA	
Chrysene-D12	%	98	50-200	103	50-200	NA		NA	
Nitrobenzene-D5	%	71	47-120	61	47-120	NA		NA	
2-Fluorobiphenyl	%	80	45-120	66	45-120	NA		NA	
p-Terphenyl-D14	%	118	36-141	109	36-141	NA		NA	
Phenol-D5	%	30	10-120	26	10-120	NA		NA	
2-Fluorophenol	%	41	19-120	36	19-120	NA		NA	
2,4,6-Tribromophenol	%	103	55-124	92	55-124	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

12/28

Date: 04/13/2006
Time: 12:01:26

AMEC-CSXT
9734605/ENV000005096/Booth Oil Site, N.Tonawanda
METHOD 608 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A06-3493		A6B1651004							
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Color 1016			UG/L	ND	0.050	NA		NA		NA	
Color 1221			UG/L	ND	0.050	NA		NA		NA	
Color 1232			UG/L	ND	0.050	NA		NA		NA	
Color 1242			UG/L	ND	0.050	NA		NA		NA	
Color 1248			UG/L	ND	0.050	NA		NA		NA	
Color 1254			UG/L	ND	0.050	NA		NA		NA	
Color 1260			UG/L	ND	0.050	NA		NA		NA	
SURROGATE(S)											
1,2,4-trichloro-m-xylene			%	102	22-119	NA		NA		NA	
1,2,4-trichlorobiphenyl			%	84	30-135	NA		NA		NA	

Date: 04/13/2006
Time: 12:01:26

AMEC-CSXT
9734605/ENV000005096/Booth Oil Site, N.Tonawanda
METHOD 608 - POLYCHLORINATED BIPHENYLS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A06-3493 A6B1651001	Matrix Spike Blk Dup A06-3493 A6B1651003	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Aroclor 1016	ug/L	0.54	0.050	0.65	0.050	NA	NA	NA
Aroclor 1221	ug/L	ND	0.050	ND	0.050	NA	NA	NA
Aroclor 1232	ug/L	ND	0.050	ND	0.050	NA	NA	NA
Aroclor 1242	ug/L	ND	0.050	ND	0.050	NA	NA	NA
Aroclor 1248	ug/L	ND	0.050	ND	0.050	NA	NA	NA
Aroclor 1254	ug/L	ND	0.050	ND	0.050	NA	NA	NA
Aroclor 1260	ug/L	0.50	0.050	0.66	0.050	NA	NA	NA
SURROGATE(S)								
Tetrachloro-m-xylene	%	98	22-119	103	22-119	NA	NA	NA
Decachlorobiphenyl	%	75	30-135	92	30-135	NA	NA	NA

NA = Not Applicable ND = Not Detected

STL Buffalo

14/28

Date: 04/13/2006
 Time: 12:01:31
 AMEC-CSXT
 9734605/ENV000005096/Booth Oil Site, N.Tonawanda
 WET CHEMISTRY ANALYSIS
 Rept: AN0326

Client ID	Lab ID	Method Blank	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No		A06-3493						
Sample Date		A6B1655302						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Total Suspended Solids	MG/L	ND	4.0	NA		NA		NA

Date: 04/13/2006
Time: 12:01:31

AMEC-CSXT
9734605/ENV000005096/Booth Oil Site, N. Tonawanda
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	LCS A06-3493	A681655301	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Total Suspended Solids	mg/L	539	4.0	NA	NA	NA	NA	NA

ient Sample ID: S-BLANK
Lab Sample ID: A681650903Matrix Spike Blank A681650901
Matrix Spike Blk Dup A681650902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD REC.
THOD 625 - PAH'S										
Acenaphthene	UG/L	46.0	40.2	50.0	50.0	92	80	86	14	25.0 47-120
Acenaphthylene	UG/L	44.8	39.2	50.0	50.0	90	78	84	14	22.0 35-129
Anthracene	UG/L	50.9	46.4	50.0	50.0	102	93	98	9	15.0 49-133
Benzo(a)anthracene	UG/L	51.9	47.7	50.0	50.0	104	95	100	9	15.0 50-143
Benzo(b)fluoranthene	UG/L	50.9	48.3	50.0	50.0	102	97	100	5	17.0 59-138
Benzo(k)fluoranthene	UG/L	49.8	47.3	50.0	50.0	100	95	98	5	19.0 50-143
Benzo(ghi)perylene	UG/L	63.2	58.3	50.0	50.0	126	117	122	7	19.0 44-153
Benzo(a)pyrene	UG/L	50.5	46.8	50.0	50.0	101	94	98	7	15.0 57-140
Chrysene	UG/L	51.3	47.3	50.0	50.0	103	95	99	8	15.0 55-146
Dibenzo(a,h)anthracene	UG/L	59.6	53.6	50.0	50.0	119	107	113	11	18.0 45-153
Fluoranthene	UG/L	48.4	47.4	50.0	50.0	97	95	96	2	15.0 46-137
Fluorene	UG/L	49.5	43.9	50.0	50.0	99	88	94	12	18.0 59-121
Indeno(1,2,3-cd)pyrene	UG/L	61.1	56.2	50.0	50.0	122	112	117	8	17.0 50-147
Naphthalene	UG/L	37.8	32.8	50.0	50.0	76	66	71	14	31.0 33-120
Phenanthrene	UG/L	49.4	44.7	50.0	50.0	99	89	94	11	16.0 56-120
Pyrene	UG/L	59.3	54.8	50.0	50.0	119	110	115	8	15.0 52-120
2-Methylnaphthalene	UG/L	40.1	35.0	50.0	50.0	80	70	75	13	30.0 40-120

17/28

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

Date : 04/13/2006 12:01:41

AMEC

Rept: AN0364

Client Sample ID: Method Blank
Lab Sample ID: A681651004Matrix Spike Blank
A681651001Matrix Spike Blk Dup
A681651003

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	RPD	REC.
METHOD 608 - POLYCHLORINATED BIPHENYLS Aroclor 1260 Aroclor 1016	UG/L	0.498	0.656	0.500	0.500	100	131 *	116	27	30.0	40-130
	UG/L	0.537	0.650	0.500	0.500	108	130	119	18	30.0	40-130

* Indicates Result is outside Qc Limits
NC = Not Calculated ND = Not Detected

18/28

STL Buffalo

Date: 04/13/2006 12:01:48

Int Sample ID: Method Blank
Lab Sample ID: A6B1655302

LCS

A6B1655301

Analyte	Units of Measure	Blank Spike	Concentration Spike Amount	% Recovery Blank Spike	QC LIMITS
1 CHEMISTRY ANALYSIS METHOD 160.2 - TOTAL SUSPENDED SOLIDS	MG/L	539.0	570.0	94	88-110

Date: 04/13/2006
Time: 12:01:55

AMEC
SAMPLE CHRONOLOGY

Rept: AN0374
Page: 1

METHOD 625 - PAH'S

Job No & Lab Sample ID	Client Sample ID			
	B00TH 0.1 CB-1 A06-3493 A6349301			
Sample Date	04/04/2006 08:30			
Received Date	04/04/2006 12:20			
Extraction Date	04/05/2006 07:00			
Analysis Date	04/07/2006 03:49			
Extraction HT Met?	YES			
Analytical HT Met?	YES			
Sample Matrix	SW			
Dilution Factor	1.0			
Sample wt/vol	1.06 LITERS			
% Dry				

Date: 04/13/2006
Time: 12:01:55

ETHOD 625 - PAH'S

Client Sample ID	Matrix Spike Blank	Matrix Spike Blk Dup		
Job No & Lab Sample ID	A06-3493 A681650901	A06-3493 A681650902		
Sample Date	04/05/2006 07:00	04/05/2006 07:00		
Received Date	04/07/2006 02:38	04/07/2006 03:02		
Analysis Date	-	-		
Extraction HT Met?	-	-		
Analytical HT Met?	-	-		
Sample Matrix	WATER	WATER		
Dilution Factor	1.0	1.0		
Sample wt/vol	1.0 LITERS	1.0 LITERS		
Dry				

Date: 04/13/2006
Time: 12:01:55

AMEC
QC SAMPLE CHRONOLOGY

Rept: AN0374
Page: 3

METHOD 625 - PAH'S

Job No & Lab Sample ID	Client Sample ID	S-BLANK A06-3493 A681650903			
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry		04/05/2006 07:00 04/07/2006 03:26 - - WATER 1.0 1.0 LITERS			

METHOD 608 - POLYCHLORINATED BIPHENYLS

Client Sample ID	BOOTH 0.1 CB-1				
Job No & Lab Sample ID	A06-3493 A6349301				
Sample Date	04/04/2006 08:30				
Received Date	04/04/2006 12:20				
Extraction Date	04/05/2006 07:00				
Analysis Date	04/07/2006 02:04				
Extraction HT Met?	YES				
Analytical HT Met?	YES				
Sample Matrix	SW				
Dilution Factor	1.0				
Sample wt/vol	1.06 LITERS				
Dry					

Date: 04/13/2006
Time: 12:01:58

AMEC
QC SAMPLE CHRONOLOGY

Rept: AN0374
Page: 2

METHOD 608 - POLYCHLORINATED BIPHENYLS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A06-3493 A681651001	Matrix Spike Blk Dup A06-3493 A681651003		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	04/05/2006 07:00 04/07/2006 01:09 - - WATER 1.0 1.0 LITERS	04/05/2006 07:00 04/07/2006 01:28 - - WATER 1.0 1.0 LITERS		

METHOD 608 - POLYCHLORINATED BIPHENYLS

Client Sample ID	Method Blank				
Job No & Lab Sample ID	A06-3493 A6B1651004				
Sample Date	04/05/2006 07:00				
Received Date	04/07/2006 01:46				
Extraction Date	-				
Analysis Date	-				
Extraction HT Met?	WATER				
Analytical HT Met?	1.0				
Sample Matrix	1.0 LITERS				
Dilution Factor					
Sample wt/vol					
Dry					

Date: 04/13/2006 12:02:02
Jobno: A06-3493

AMEC
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THI	Analysis Date	AHT Matrix
A6349301	B00TH 0.1 CB-1	MG/L	Total Suspended Solids	160.2	1.00	04/04/2006 08:30	04/04 12:20	NA	NA	04/05 13:45	Yes SW

AHT = Analysis Holding Time Met
THI = TCLP Holding Time Met
NA = Not Applicable

ate: 04/13/2006 12:02:02
obno: A06-3493

AMEC
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THI	Analysis Date	AHT	Matrix
B1655302	Method Blank	Mg/L	Total Suspended Solids	160.2	1.00	-	- 12:20	NA	NA	04/05 13:45	Yes	WATER
B1655301	LCS	Mg/L	Total Suspended Solids	160.2	1.00	-	- 12:20	NA	NA	04/05 13:45	Yes	WATER

27/28

HT = Analysis Holding Time Met
HT = TCLP Holding Time Met
A = Not Applicable

STL Buffalo



CHAIN OF CUSTODY

[illegible]

White Copy-CSX/Cilent Yellow Copy-Lab. Pink Copy-Field Crew

402

