Supplemental Site Investigation and Closure Report for Ameron Site,

Site no. 915133- June 2004

111 Colgate Avenue, Buffalo, New York

AFI Project No. R1015



\FI Environmental

7815 Buffalo Avenue Niagara Falls, New York 14304 716-283-7645 Fax: 716-283-2858

July 21, 2004

Mr. Myles Culhane Ameron International Ameron Center 245 South Los Robles Avenue Pasadena, CA 91101-2820

RE: Supplemental Site Investigation and Closure Report for Ameron Site, Site no. 915133- June 2004 111 Colgate Avenue, Buffalo, New York AFI Project No. R1015

Dear Mr. Culhane:

T Environmental (AFI) has prepared this letter report to summarize the results of a Supplemental Site Investigation and Closure Report for Ameron Site, Site no. 915133 - June 2004. AFI's work included a Supplemental, Subsurface Soil Investigation (soil borings 1-4) within the paint room, Chemical Analysis of Groundwater Sample collected from Monitoring Well #2 (MW2), and a Supplemental Site UST Investigation (EM-61 Electro-magnetometer Survey) conducted at the former Ameron Site located at 111 Colgate Avenue, Buffalo, Erie County, New York, June 2, 2004, on behalf of Mr. Craig Slater, Esq., of Harter, Secrest & Emery LLP.

Purpose of Study

The purpose of AFI's Supplemental Site Investigation and Closure Report for Ameron Site, Site no. 915133 - June 2004 was to determine the effectiveness of a soil vapor recovery system operating for the past twelve (12) years within the concrete block and brick paint building located at the western edge of Building #1 (See Site Map), and to identify potential underground storage tank (UST) locations, if any.

In order to address this issue of Closure for the Ameron Site, AFI was asked by Mr. Craig Slater, Esq. of Harter, Secrest & Emery LLP and retained by Ameron, to conduct a Supplemental, Subsurface Soil Investigation within Building #1, beneath the concrete slab floor, in close proximity to the paint tanks and juxtaposed to the SVE treatment system, and to collect a representative down gradient, groundwater sample from MW #2. The purpose of this data collection was to assess the effectiveness of the SVE's removal of target chemicals of concern (MEK, MIBK, and MBK) from the soils and groundwater near building #1. A second aspect of the investigation included a geophysical (magnetometer) survey of the entire property as part of a Supplemental Site UST Investigation. AFI's investigation conducted on June 2, 2004 included the following tasks:

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Supplemental Site Investigation and Closure Activities- Ameron, Site No. 915133

- 1. Installation of four (4) geoprobe borings through 6" concrete top layer and to a depth of 8 feet BGS.
- 2. Collection of continuous 4' split-spoon samples advanced with a geoprobe sampler from surface to a depth of 8 feet BGS. Two (2) samples were collected from each bore hole.
- 3. Head space scanning for Volatile Organic Carbons using a "mini-rae" PID meter from a sample representative of each split-spoon for each of the four (4) borings.
- 4. Chemical analysis of four (4) subsurface soil samples for target compound list (MEK, MIBK and MBK); one soil sample representing the 4 ft. zone with highest PID readings at each bore hole location.
- 5. Recording of water level measurements from monitoring well MW2.
- 6. Well development and water sample collection from MW2.
- Analysis of MW2 water sample for target compound list(MEK, MIBK and MBK).

Supplemental UST Investigation Activities

8. Geophysical survey undertaken using a dual antenna magnetometer unit (EM-61) and data logging equipment.

AFI has prepared this summary report to:

- 1. Present details concerning the methods employed to collect and analyze soils and water samples:
- 2. Describe subsurface conditions encountered:
- 3. Evaluate resultant data with respect to the occurrence of contamination;
- 4. Compare contaminant concentrations with applicable regulatory levels;
- 5. Provide recommendation for closure; or further investigation and remedial action at the site, if warranted.

Site History

This site has been on the DEC Registry of Inactive Hazardous Waste Sites (Site No. 915133) for over ten (10) years. The listing of this site resulted from the determination that the protective coatings manufacturing facility was operated between 1960 to approximately 1982, during which time contaminants of concern were used, including methylethyl, ketone, other ketones, acetone, xylenes, and various benzene-based compounds. As the result of the listing of this property, Ameron signed an Order on Consent in 1985 compelling remediation of the site, primarily associated with 11 No. 1. Plant No. 1 had associated with it contaminants of concern underneath the building slab. Although other minor remedial elements were completed, the primary remediation required was to install a vapor collection ventilation system under the two westernmost rooms of Plant No. 1. Under their Order on Consent, Ameron was required to operate SVE System for a period of ten (10) years which, concluded sometime in 1996.

While DEC acknowledged that all of Ameron's obligations under the Order on Consent were completed to their satisfaction, DEC continues to list this site on the Registry of Inactive Hazardous Waste Sites as a Class 4, which connotes a site properly closed but requires continued management. DEC refused, based on the data it had in hand in 1999, to change the site classification to Class 5 (site properly closed, does not require continued management) or remove the site from the Registry altogether.

Ameron desired to have this site removed from the DEC Registry completely and, for that purpose, has contracted AFI Environmental to implement a Focused, Supplemental Site Investigation in the area of the potential impact (primarily in the area adjacent to the SVE System) to confirm that the SVE successfully remediated contaminants of concern to levels below DEC TAGM 4046 and to make a closure request.

Supplemental Subsurface Investigation

On June 2, 2004, a total of four (4) soil borings (SB#1-4) were completed by AFI and their subcontractors, C&W Environmental, to a maximum depth of 8.0 feet below ground surface (BGS). Each of these borings were positioned, near the paint tanks, so as to determine soil conditions, beneath the concrete floor, and to identify the possible presence subsurface contamination inside the treatment building (building #1) at the Ameron Site located at 111 Colgate Avenue, Buffalo, New York. See Figure 1 for boring locations.

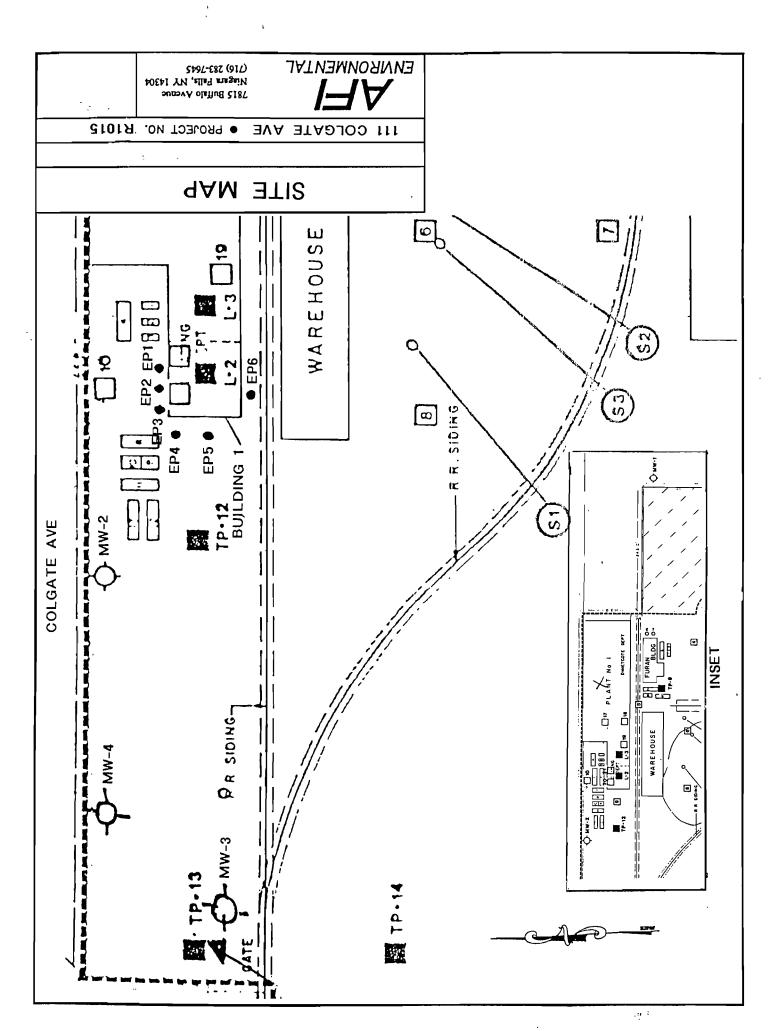
Soil Boring

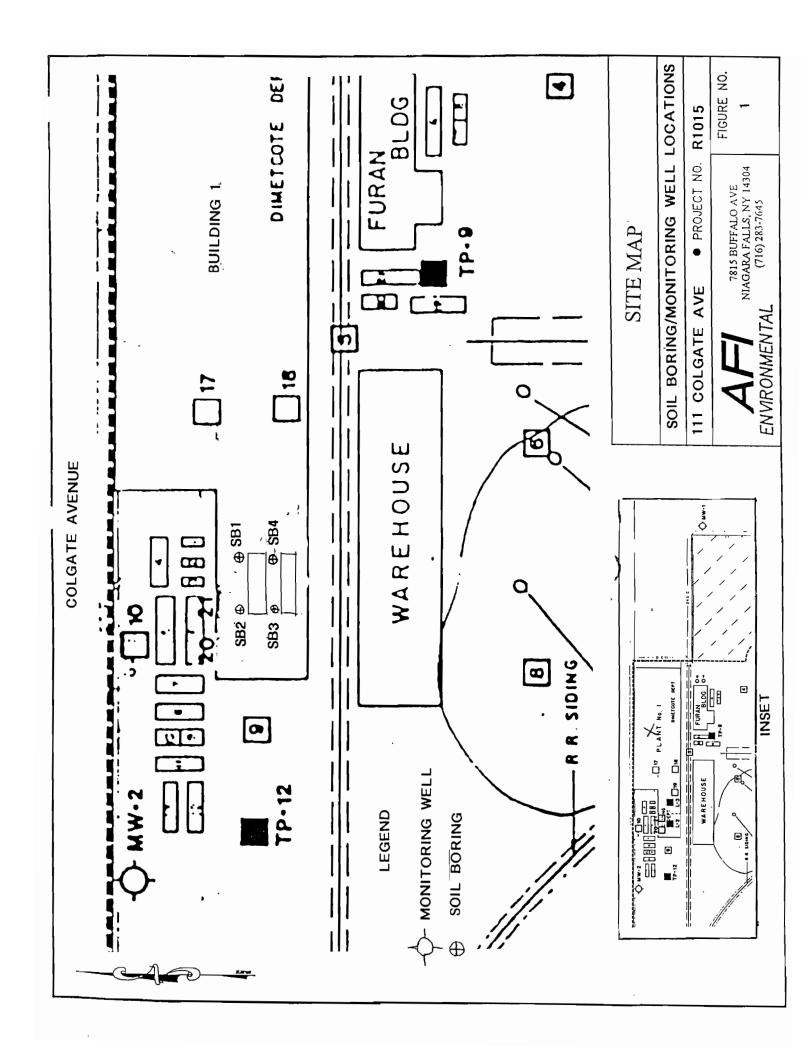
A track mounted 54DT Direct Push Rig was utilized to secure continuous soil samples under the supervision of AFI Senior Scientist and with the assistance of AFI Field Scientist and technicians. Refer to Figure 1 presented in Attachment A for soil boring locations. At the completion of every soil sampling interval, the split-spoon samplers were decontaminated by a rinse wash combined with a concentrated surfactant and a clean water second rinse to complete decontamination. The soil borings were advanced through the concrete, to a depth of eight (8) feet below ground surface (BGS) to collect discrete grab samples of the shallow overburden

Sample Analysis

A total of eight (8) subsurface soil samples were collected and four (4) subsurface soil samples were submitted for chemical analysis. The soil borings were advanced through the concrete, to a depth of eight (8) feet below ground surface (BGS) to collect discrete grab samples of the shallow overburden. The samples were collected with Marco Core (MC) open samplers. These samplers are open tube design and measure approximately 2 inches outside diameter (OD) by about 48 inches long. The samplers are fitted with a removable cutting shoe and a clear acetate liner. The location of each Geoprobe soil boring was determined in the field by the AFI's Senior Scientist. Upon completion, each of the soil boring holes were backfilled with bentonite..

Samples were evaluated for volatiles in Head space using a PID meter. Samples from each 4' interval exhibiting the highest PID readings from each soil boring were sent for analysis. Based on visual/sensory observation and PID reening results, one (1) grab sample was obtained from borings SB#1 (0'-4'), SB#2 (0-4'), SB#3 (4'-8'), and SB#4 (0'. These four (4) samples were analyzed for volatile organic compounds (EPA 8260) and MEK, MIBK and MBK. Field sampling records, which were prepared for each sampling location, the chain-of-custody record and the analytical results are presented in Appendix A. The results of the chemical analysis are discussed below.





Findings of Investigation

Subsurface Soils

Fill material was encountered below a concrete layer 4 inches thick. The fill material consisted of crushed stone followed by silty sand..

The natural soils encountered below the fill were variable, consisting of silty sand and brownish-gray clay, with varying amounts of as described in the boring log.

Detailed soil description of each interval samples as well as other pertinent boring information are included in the Test Boring Logs presented in Appendix B.

PID screening performed during the boring investigation revealed all soil borings with PID readings above background (5 PPM). Readings for the corresponding PID screening results of each boring interval are presented as Table 1.

TABLE 1 PID HEADSPACE ANALYSIS JUNE 2, 2004 111 COLGATE AVENUE BUFFALO, NEW YORK PROJECT NO. R1015

SOIL BORING LOCATION	DEPTH	PID READING (ppm)	COMMENTS
SB-1	0'-4'	999	PETROLEUM ODOR
SB-1	4'-8'	103	PETROLEUM ODOR
SB-2	0'-4'	532	PETROLEUM ODOR
SB-2	4'-8'	7.0	NO ODOR
SB-3	0'-4'	13.0	NO ODOR
SB-3	4'-8'	17.5	NO ODOR
SB-4	0'-4'	106	NO ODOR
SB-4	4'-8'	57	NO ODOR

Water Level/Well Development

On June 2, 2004, water levels and total depths were gauged at the previously installed monitoring well MW#2. Monitoring well #2 was then developed (purged of a minimum of 3.5 well volumes) to obtain a representative water sample for analytical testing.

The water sample was analyzed for volatile organic compounds (EPA 8260) and MEK, MIBK and MBK.

Analytical Results

Soil Results

All soil samples were analyzed for the volatile organic compounds (VOCs) and MEK, MIBK and MBK, listed in the *Spill Technology and Remediation Series* (STARS) Memo #1, published by the New York State Department of Environmental Conservation (NYSDEC) using EPA methods 8260.

e analytical results for the four (4) soil samples are presented in Table #2 and results are summarized and compared to the NYSDEC TAGM 4046. The complete Analytical Reports with chain-of-custody are presented in Appendix A.

A review of Table #2 shows that there are no exceedances for any of the chemicals of concern MEK, MIBK, and MBK for any of the four soil borings (SB-1, SB-2, Sb-3,& SB-4). SB-1 and SB-2 exceed some of the Guidance Values for other volatile organics and SB-4 exceeded the Guidance Values for m,p-Xylene, o-Xylene and Xylenes (Total). The exceedances for chemicals that are not chemicals of concern for the site may be related to USTs remaining at the site (see Supplemental UST Investigation discussions below).

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TABLE 2 SOIL ANALYTICAL RESULTS JUNE 2, 2004 111 COLGATE AVE., BUFFALO, NY VOLATILES CHEMICALS OF CONCERN

Component	Client Lab Date MDL	ı	SB-1 (0-4ft) 032214 04 02-Jun-2004	SB-2 (0-4ft) 032215 04 02-Jun-2004	SB-3 (4-8ft) 032216 04 02-Jun-2004	SB-4 (0-4ft) 032217 04 02-Jun-2004	Rec. Soil Cleanup Objective TAGM 4046 ppm
isopropylbenzene	0.001	mg/kg	1.4	6.5	0.84	0.29	5**
n-Propylbenzene	0.001	**	0.49	5.1	0.63	0.17	14**
p-Isopropyltoluene	0.001	**	< 0.10	< 0.12	< 0.10	< 0.10	10
1,2,4-Trimethylbenzene	0.001	11	0.18	15	0.21	0.19	13**
1,3,5-Trimethylbenzene	0.001	"	0.16	7.4	< 0.10	0.13	3.3
n-Butylbenzene	0.001	"	< 0.10	< 0.12	< 0.10	< 0.10	10
sec-Butylbenzene	0.001	"	< 0.10	< 0.12	< 0.10	< 0.10	25**
tert-Butylbenzene	0.001	11	< 0.10	< 0.12	< 0.10	< 0.10	1.3
Naphthalene	0.001	**	< 0.10	0.41	< 0.10	< 0.10	13
Benzene	0.001	11	< 0.10	< 0.12	< 0.10	< 0.10	0.06
Ethylbenzene	0.001	**	64	70	0.12	4.9	5.5
Toluene	0.001	**	16	0.15	< 0.10	0.22	1.5
m&p-Xylene	0.001	**	250	390	0.60	28	1.2
o-Xylene	0.001	17	76	0.55	0.13	5.8	1.2
Xylenes(Total)	0.001	**	320	390	0.73	34	1.2
Methyl-t-butylether	0.001	11	< 0.10	< 0.12	< 0.10	< 0.10	0.12
2-Butanone	0.005	**	<.50	<.60	<.50	<.50	0.3
2-Hexanone	0.005	"	<.50	<.60	<.50	<.50	1*
4-Methyl-2-Pentanone	0.005	**	<.50	<.60	<.50	<.50	1

^{*}As per phone conversation with Greg Sutton of the NYSDEC on June 16, 2004

^{**} As per NYSDEC Technical Memorandum (Michael J. O'Toole, Director) on December 20, 2000

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Groundwater Results

Table #3 summarizes the analytical results of the water sample from MW2. No chemicals found in the water sample were above TAGM 4046 Guidance Values or above detection limits this included the Target Chemicals of Concern for the Site (MEK, MBK, MIBK.

TABLE 3 SOIL ANALYTICAL RESULTS JUNE 2, 2004 111 COLGATE AVE., BUFFALO, NY VOLATILES

CHEMICALS OF CONCERN

Groundwater

			Oloulia water			
Lab No.:		032219 04	Standards			
Date Sampled:		02-Jun-2004	Criteria			
MDL	Units		ug/l or ppb			
0.5	ug/L	<	5			
0.5	11	<	5			
0.5	"	<	5			
0.5	"	<	5			
0.5	"	<	2			
0.5	"	<	5			
0.5	"	<	5			
0.5	11	<	5			
0.5	H	<	10			
0.5	**	<	1.0**			
0.5	11	<	5			
0.5	11	<	5			
1.0	11	<	5			
0.5	11	<	5			
1.0	11	<	5			
0.5	11	<	10			
3.2	11	<	50			
1.3	н	<	5*			
1.5	11	<	50			
	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	Date Sampled: MDL Units 0.5 ug/L 0.5 " 0.5 " 0.5 " 0.5 " 0.5 " 0.5 " 0.5 " 0.5 " 0.5 " 1.0 " 0.5 " 1.0 " 0.5 " 1.0 " 0.5 " 3.2 " 1.3 "	Date Sampled: Units MDL Units 0.5 ug/L <			

^{*} As per phone conversation with Greg Sutton of the NYSDEC on June 16, 2004

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** As per NYSDEC Technical Memorandum (Michael J. O'Toole, Director) on December 20, 2000

Supplemental Site UST Investigation -Geophysical Survey

The geophysical survey was conducted by utilizing a Geonics EM-61 dual antenna magnetometer unit with data logging equipment. Under the supervision of AFI's Senior Scientist, our subcontractor, Construction Lending Services, Inc., traversed the property and obtained readings along a 5' grid system established by CLS in the field. The ground surface in the area of the survey was cleared of all obstructions which could result in data gaps and interferences, before the survey was conducted.

Observations

Magnetometer Survey

Based on the results of the EM-61 Magnetometer Survey, seventeen (17) anomalies were detected. Twelve (12) are suspected to be UST and the additional five (5) are unknown. See the EM-61 Magnetometer Survey attached as Appendix C.

Conclusions/Recommendations

^CI recommends that the site be removed from the NYSDEC's Registry of Inactive Hazardous Waste Sites site No. 915133 and emed closed in respect to the target chemicals of concern; AFI also recommends that a NYSDEC Spill number be issued for the site and that all USTs and potential USTs (identified via magnetometer) be excavated, pumped dry, exhumed and that the tank farm be properly closed under the newly assigned NYSDEC Spill Number. The owner must consider excavation and proper disposal of any petroleum contaminated soils resulting from possible tank leakage. Additional soil sampling will be warranted to document proper UST closure according to NYSDEC Spill Regulations.

Sincerely,

AFI ENVIRONMENTAL

William L. Heitzenrater

WLH:smh Enclosure

cc: Mr. Craig Slater, Esq.

file

afi/r1015/reports/ltrrpt06.wpd





Certificate of Analysis

CLIENT INFORMATION

LABORATORY INFORMATION

Attention:

Alby Benton

Contact:

Mike Challis, B.Sc, C.Chem.

Client Name:

AFI Environmental

Project:

AN040768

Project:

P1014

Date Received:

03-Jun-2004

Project Desc:

Colgate Ave.

Date Reported:

10-Jun-2004

Address:

7815 Buffalo Avenue

Submission No.: 4F0159

Niagara Falls, NY

14304

Sample No.:

032213-032219

Fax Number: 716 283-2858 Phone Number: 716 283-7645

NOTES:

"-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data ayailable

LOQ can by determined for all analytes by multiplying the appropriate MDL X 3.33

Solids data is based on dry weight except for biota analyses.

Organic analyses are not corrected for extraction recovery standards except for isotope.

dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

The enclosed copy of the Chain of Custody Record may contain information necessary for the

interpretation of the data.

Methods used by PSC Analytical Services are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Twentieth Edition. Other methods are based on the principles of MISA or EPA methodologies. New York State: ELAP Identification Number 10756.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at PSC Analytical Services for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by:

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6/10/04

PASC - Certificate of Analysis

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L. Date Si	ient ID: ab No.: ampled:		SB-1 (0-4ft) 032214 04 02-Jun-2004	SB-2 (0-4ft) 032215 04 02-Jun-2004	\$B-3 (4-8ft) 032216 04 02-Jun-2004	\$B-4 (0-4ft) 032217 04 02-Jun-2004
Component	MDL	Units				
Acetone	0.020	mg/kg	<2.0	<2.4	<2.0	<2.0
Benzene	0.001	"	<0.10	<0.12	<0.10	<0.10
Bromoform	0.001	*	<0.10	< 0.12	<0.10	<0.10
Bromomethane	0.006	"	<0.60	<0.72	<0.60	<0.60
2-Butanone MEK	0.005		<0.50	<0.60	<0.50	<0.50
Carbon Disulfide	0.001	"	<0.10	<0.12	<0.10	<0.10
Carbon Tetrachloride	0.001		<0.10	<0.12	<0.10	<0.10
Chlorobenzene	0.001	"	<0.10	<0.12	<0.10	<0.10
Chlorodibromomethane	0.001	•	<0.10	<0.12	<0.10	<0.10
Chloroethane	0.001	*	<0.10	<0.12	<0.10	<0.10
Chloroform	0.001	•	<0.10	<0.12	<0.10	<0.10
Chloromethane	0.001	"	<0.10	<0.12	<0.10	<0.10
1,2-Dichlorobenzenc	0.001		<0.10	<0.12	<0.10	<0.10
1,3-Dichlorobenzene	0.001	-	<0.10	<0.12	<0.10	<0.10
1,4-Dichlorobenzene	0.001	. **	<0.10	<0.12	<0.10	<0.10
Dichlorobromomethane	0.001		<0.10	<0.12	<0.10	<0.10
1,1-Dichloroethane	0.001	۳	<0.10	<0.12	<0.10	<0.10
1,2-Dichloroethane	0.001	-	<0.10	<0.12	<0.10	<0.10
1,1-Dichlorocthene	0.001	×	<0.10	<0.12	<0.10	<0.10
cis-1,2-Dichloroethenc	0.001		<0.10	<0.12	<0.10	<0.10
trans-1,2-Dichloroethene	0.001	N	<0.10	<0.12	<0.10	<0.10
1,2-Dichloropropane	0.001	*	<0.10	<0.12	<0.10	<0.10
cis-1,3-Dichloropropens	0.001		<0.10	<0.12	<0.10	<0.10
trans-1,3-Dichloropropenc	100.0		<0.10	<0.12	<0.10	<0.10
Ethylbenzene	0.001		64	70	0.12	4.9
2-Hexanone MBK	0.005	-	<0.50	<0.60	<0.50	<0.50 <2.0
Dichloromethane -	0.020	*	<2.0	<2.4	<2.0	<0.50
4-Methyl-2-Pentanone MIBK			1.2	< 0.60	<0.50 <0.10	<0.30 <0.10
Methyl-t-butylether	0.001	77	<0.10	<0.12		<0.10
Styrene	0.001	, , , , , , , , , , , , , , , , , , ,	1.6	<0.12	<0.10 <0.10	<0.10
1,1,2,2-Tetrachloroethane	0.001		<0.10 <0.10	<0.12 <0.12	<0.10	<0.10
Tetrachloroethene	0.001	н	16	0.12	<0.10	0.22
Toluene	0.001			<0.13 <0.12	<0.10	<0.10
1,1,1-Trichloroethane	0.001		<0.10 <0.10	<0.12 <0.12	<0.10 <0.10	<0.10
1,1,2-Trichloroethane	0.001		<0.10	<0.12	<0.10	<0.10
Trichloroethene	100.0			<0.12	<0.10	<0.10
Trichlorofluoromethane	0.001		<0.10 <0.50	<0.12	<0.50	<0.50
Vinyl Acetate	0.005		<0.10	<0.12	<0.10	<0.10
Vinyl Chloride	0.001	*		390	0.60	28
m&p-Xylene	0.001		250 76	0. 5 5	0.13	5.8
o-Xylene	0.001	·	70	0.23	0.15	3.0
Surrogate Recoveries		%			n=	0=
d4-1,2-Dichloroethane			89	88	87	87
d8-Toluene			98	98	98	98
Bromofluorobenzene			96	96	93	94
d10-Ethylbenzene			57	71	64	61

Client: AFI Environmental Project: P1014

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PASC - Certificate of Analysis

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	Client ID: Lab No.:		Method Blank 032213 04	Blank Spike 032213 04	% Recovery 032213 04 02-Jun-2004	Blank Spike Duplicate 032213 04 02-Jun-2004	% Recovery 032213 04 02-Jun-2004
Component	te Sampled: MDL	Units	02-Jun-2004	02-Jun-2004	02-341-2004	02-3111-2004	02=JU(I-2004
Acetone	0.020	mg/kg	<0.80	2.9	120	2.9	120
Benzene	0.001	*	<0.040	2.5	98	2.5	99
Bromoform	0.001	•	<0.040	2.5	100	2.6	100
Bromomethane	0.006	•	<0.24	2,4	96	2.5	99
2-Butanone	0.005	*	<0.10	2.4	96	2.5	98
Carbon Disulfide	0.001		<0.040	2.2	88	2.2	89
Carbon Tetrachloride	0.001	*	<0.040	2.4	96	2.4	98
Chlorobenzene	0.001	•	<0.040	2.6	100	2.6	100
Chlorodibromomethane	0.001		<0.040	2.5	100	2.6	100
Chloroethane	0.001	4	< 0.040	2.4	97	2.4	96
Chloroform	0.001	M	<0.040	2.5	99	2.5	99
Chloromethane	0.001	U	<0.040	2.4	95	2.4	95
1,2-Dichlorobenzene	0.001		<0.040	2.4	95	2.4	96
1,3-Dichlorobenzene	0.001	•	< 0.040	2.4	98	2.5	98
1,4-Dichlorobenzenc	0.001		< 0.040	2.4	97	2.4	97
Dichlorobromomethane	0.001	•	< 0.040	2.5	99	2.5	100
1,1-Dichloroethane	0.001	•	<0.040	2.4	97	2.4	98
1,2-Dichlorocthane	0.001	*	< 0.040	2,4	96	2.4	98
1,1-Dichloroethene	0.001	•	< 0.040	2.3	93	2.3	93
cis-1,2-Dichloroethene	0.001	*	< 0.040	2.5	99	2.5	99
trans-1,2-Dichloroethene	0.001		< 0.040	2.4	95	2.4	96
1,2-Dichloropropane	0.001	#	< 0.040	2.5	100	2.5	100
cis-1,3-Dichloropropene	0.001	•	< 0.040	2.4	96	2.4	97
trans-1,3-Dichloropropene		•	<0.040	2.3	92	2.3	93
Ethylbenzene	0.001		<0.040	2.6	100	2.6	100
2-Hexanone	0.005	•	<0.20	2.7	110	2.8	110
Dichloromethane	0.020		< 0.80	2.5	100	2.5	100
4-Methyl-2-Pentanone	0.005	•	< 0.20	2.5	100	2.6	100
Methyl-t-butylether	0.001	•	< 0.040	NS	-	NS	-
Styrene	0.001		<0.040	2.7	110	2.8	110
1,1,2,2-Tetrachloroethane	0.001		<0.040	2.2	86	2.1	85
Tetrachlorocthene	0.001	•	<0.040	2.5	98	2.5	99
Toluene	0.001		<0.040	2.5	100	2.5	100
1,1,1-Trichloroethane	0.001	•	<0.040	2.4	96	2.4	97
1,1,2-Trichloroethane	0.001	7	<0.040	2.5	100	2.5	100
Trichloroethene	0.001		<0.040	2.6	100	2.7	110
Trichlorofluoromethane	0.001	77	<0.040	2.5	100	2.6	100
Vinyl Acetate	0.005		<0.040	NS	-	NS	-
Vinyl Chloride	0.003	u	<0.040	2.4	95	2.4	95
m&p-Xylene	0.001		<0.040	5.2	100	5.2	100
o-Xylene	0.001	*	<0.040	2.6	100	2.6	100
Surrogate Recoveries		%					
d4-1,2-Dichlorocthane			88	94	94	95	95
d8-Toluene			97	102	102	102	102
Bromofluorobenzene			93	101	101	101	102
d10-Ethylbenzene			87	NA	-	NA	-

Client: AFI Environmental Project: P1014

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Component	Lab No.: Date Sampled: MDL	Units	032214 04 02-Jun-2004	032215 04 02-Jun-2004	032216 04 02-Jun-2004	032217 04 02-Jun-2004
Isopropylbenzene	0.00	mg/kg "	4.1	6.5	0.84	0.29
p-Isopropylloluene	0.001	•	0.10	<0.12	<0.10 <0.10	Q.10 40.10
1,2,4-Trimethylbenzene		e	0.18	15	0.21	0.19
1,3,5-Trimethylbenzene		:	0.16	7.4	€0.10	0.13
n-Butylbenzene	0.001	z	<0.10	<0.12	<0.10	<0.10
sec-Butylbenzene	0.001	-	<0.10	<0.12	<0.10	<0.10
tert-Butylbenzene	0.001		0.10	<0.12	<0.10	01.0>
Naphthalenc	0.001	Ŀ	Ø.10	0.41	⊙ .10	Ø.10
Benzene	0.001	Ŀ	<u>9</u> .6	40.12	01.0	<0.10
Ethylbenzene	0.001	=	2	20	0.12	4.9
Toluene	0.001		91	0.15	<0.10	0.22
m&p-Xylene	0.001		250	390	0.60	28
o-Xylene	0.001	£	92	0.55	0.13	5.8
Xylenes(Total)	0.001	=	320	330	0.73	34
[sopropy]benzene	0.001	=	4.	6.5	0.84	0.29
n-Propylbenzene	0.001	=	0.49	5.1	0.63	0.17
p-Isopropyltoluene		•	<u>0</u>	<0,12	<0.10	01.0 0
1,2,4-Trimetbylbenzene		Ŀ	0.18	13	0.21	0.19
1,3,5-Trimethylbenzene	_	=	0.16	7.4	0.090	0.13
n-Butylbenzene	0.001	=	<0.10	<0.12	01.D	<0.10
sec-Butylbenzene	0.001	E	0.10	<0.12	<0.10	€0.10
ten-Butylbenzene	0.001	e	01.0	<0.12	<0.18	Ø.10
Naphthalene	0.001	•	<0.10	0.41	01.0>	01.6 ⇔
Methyl-t-butylether	0.001	-	<0.10	<0.12	40.10	Ø.10
Surrogate Recoveries		%				
d4-1,2-Dichloroethane	-		8	88	87	. 28
d8-Tolucne			86	86	86	86
Bromofluorobenzene			96	96	83	ጀ
d10-Ethylbenzene			57	11	64	61

PASC - Certifica. f Analysis

Page Juf 9

PASC - Certifica. f Analysis

	Clent ID: Lab No:		Method Blank 032213 04	Blank Spike	% Recovery 032213 04	Blank Spike Duplicate	% Recovery 012213 04
	Date Sampled:		02-Jun-2004	02-Jun-2004	02-Jun-2004	02-Jun-2004	02-Jun-2004
Cemponent	MDL	Units					
Isopropylbenzene	100.0	nog/kg	40.040	2,3	16	2.3	33
n-Propylbenzene	0.001	E	<0.040	2.4	97	2.5	86
p-Isopropyltoluene	ne 0.001	=	<0.040	2.4	8	2.5	86
I,2,4-Trimethylbenzene	enzene 0.001	=	<0.040	2.4	76	2.4	85
1,3,5-Trimethylbenzene	enzene 0,001	-	<0.040	2.5	86	2.5	001
n-Butylbenzene	0.00	•	<0.040	2.5	66	2.5	100
sec-Butylbenzene		•	<0.040	2,5	<u>8</u>	2.5	<u>8</u>
tert-Butylbenzene		±	<0.040	2.4	8	2.4	97
Naphthalene	0.001	×	<0.040	2.3	92	2.4	95
Benzene	100.0	=	0.040	2.5	8 6	2.5	66
Ethylbenzene	100:0	•	0.040	2.6	001	2.6	100
Toluene	100:0	•	<0.040	2.5	<u>8</u>	2.5	<u>8</u>
m&p-Xylene	0.001	=	<0.040	5.2	<u>8</u>	2.2	<u>8</u>
o-Xylene	0.001	•	40.040	2.6	100	2.6	100
Xytenes(Total)		•	<0.040	7.8	100	7.8	001
Isopropylbenzene	•	•	<0.040	2.3	16	2.3	92
n-Propylbenzene		=	<0.040	2.4	8	2.5	86
p-Isopropyltoluene		Ŧ	<0.040	2.4	76	2.5	86
1,2,4-Trimethylbenzene		=	⊘.04 0	2.4	76	2.5	86
1,3,5-Trimethylbenzene			0.040	2.5	8 6	2.5	001
n-Butylbenzene		•	<0.040	2.5	66	2.5	001
sec-Butylbenzene		-	<0.040	2.5	2	2.5	100
tert-Butylbenzene		-	<0.040	2.4	96	2.4	76
Naphthalene	-	•	<0.040	2.3	25	2.4	95
Methyl-t-butylether	ıer 0.001	E	€.040	SS		NS	
Surrogate Recoveries	cries	%					
d4-1,2-Dichloroethane	thane		60	\$	ጀ	\$6	95
d8-Tolucne			64	102	102	102	102
Bromofluarobenzene	מבעכ		ድ	101	101	101	102
d 10-Ethylbenzene	v		82	¥		NA NA	

6/10/04

PASC - Certificate of Analysis

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Component	Client ID; Lab No.: Date Sampled: MDL	Units	M-W-2 032219 04 02-Jun-2004	Method Blank 032218 04 02-Jun-2004	Blank Spike 032218 04 02-Jun-2004	% Recovery 032218 04 02-Jun-2004
pH of VOC vials			7.00	7.00	-	•
Acetone	12.7	ug/L	<	<	68	140
Benzene	0.5	*	<	<	50	100
Bromoform	0.7	"	<	<	52	100
Bromomethane	1.0	-	<	<	36	72
2-Butanone	3.2	•	<	<	55	110
Carbon Disulfide	0.9	-	<	<	48	96
Carbon Tetrachloride	0.7	•	<	<	49	99
Chlorobenzene	0.6	•	<	<	51	100
Chlorodibromomethane	0.4	•	<	<	51	100
Chloroethane	0.9	*	<	<	51	100
2-Chlorocthylvinylether	2.8	**	<	<	NA	<
Chloroform	0.4	*	<	<	50	100
Chloromethane	1.4	•	<	<	55	110
1,2-Dichlorobenzene	8.0	•	<	<	48	96
1,3-Dichlorobenzene	1.8	•	<	<	49	99
1,4-Dichlorobenzene	1.6	4	<	<	49	99
Dichlorobromomethane	0.4	•	<	<	51	100
1,1-Dichloroethane	0.5	•	<	<	49	97
1,2-Dichloroethane	0.4	×	<	<	48	96
1, 1-Dichloroethene	0.7	•	<	<	48	96
cis-1,2-Dichloroethene	0.6	*	2.8	<	51	100
trans-1,2-Dichloroethene		•	<	<	47	94
1,2-Dichloropropane	0.7	•	<	<	50	100
cis-1,3-Dichloropropene		•	<	<	49	98
trans-1,3-Dichloroproper		•	<	<	48	95
Ethylbenzene	0.5	•	<	<	52	100
2-Hexanone	1.3	•	<	<	53	110
Dichloromethane	2.3	7	<	<	49	98
4-Methyl-2-Pentanone	1.5	•	<	<	50	99
Methyl-t-butylether	0.5	-	<	<	NS	-
Styrene	0.6	•	<	<	52	100
1,1,2,2-Tetrachloroethan			<	<	50	100
Tetrachloroethene	0.5	-	<	<	50	100
Toluene	1.0		<	<	51	100
1,1,1-Trichlorocthane	0.8		<	<	49	97
I,1,2-Trichloroethane	0.6	-	<	<	51	100
Trichloroethene	1.0	,	<	<	49	99
Trichlorofluoromethane	1.8		<	<	53	110
Vinyl Acetate	2.4	-	<	<	NS	•
Vinyl Chloride	0.9		1.0	<	50	100
m&p-Xylenc	1.1		<	<	100	100
o-Xylcne	, 0.5	•	<	<	50	100
Surrogate Recoveries		%				
d4-1,2-Dichloroethane			86	85	90	90
18-Toluene			94	94	98	9 8
comofluorobenzene			93	92	98	98

PSC Submission No: 4F0159

Client: AFI Environmental Project: P1014

6/10/04

PASC - Certificate of Analysis

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	Client ID: Lab No.: Date Sampled:		M-W-2 032219 04 02-Jun-2004	Method Blank 032218 04 02-Jun-2004	Blank Spike 032218 04 02-Jun-2004	% Recovery 032218 04 02-Jun-2004
Component	MDL	Units				
pH of VOC vials			7.00	7.00	-	•
Bromofluorobenzene			93	92	98	98
Isopropylbenzene	0.5	ug/L	<	<	46	93
n-Propylbenzene	0.5	,	<	<	50	99
p-Isopropyltoluene	0.5	•	<	<	50	99
1,2,4-Trimethylbenzene	0.5	•	<	<	51	100
1,3,5-Trimethylbenzene			<	<	51	100
n-Butylbenzenc	0.5	W	<	<	50	100
sec-Butylbenzene	0.5	*	<	<	51	100
tert-Butylbenzene	0.5	•	<	<	50	100
Naphthalene	0.5	#	<	1.1	45	90
Benzene	0.5	Ħ	<	<	50	100
Ethylbenzene	0.5		<	<	52	100
Toluene	0.5	•	<	<	51	100
m&p-Xylene	1.0		<	<	100	100
o-Xylene	0.5	-	<	<	50	100
Xylenes(Total)	1.0	•	<	<	150	100
Isopropylbenzene	0.5		<	<	46	93
n-Propylbenzene	0.5	•	<	<	50	99
p-Isopropyltolucne	0.5	•	<	<	50	99
1,2,4-Trimethylbenzene	0.5	P	<	<	51	100
1,3,5-Trimethylbenzene		n	<	<	51	100
n-Butylbenzene	0.5	*	<	<	50	100
sec-Butylbenzene	0.5	4	<	<	51	100
tert-Butylbenzene	0.5	H	<	<	5 0	100
Naphthalene	0.5	ij	<	1.1	45	90
Methyl-t-butylether	0.5	•	<	<	NS	-
Surrogate Recoveries		%				•
d4-1,2-Dichloroethane			86	85	90	90
d8-Toluene			94	94	98	98
Bromofluorobenzene			93	92	98	98

JUN-10-2004 16:51 PSC ANALYTICAL SERVICES 1 905 332 1511 P.08

6/10/04 PASC - Summary of Analysis Pre. Dates Page MS-8 of 9

Batch Code: 0608MC02
Acetone 032213 04

Acetone 032213 04
032214 04
032215 04
032216 04
032217 04
Date Analysed: 04/06/08
Date Prepared: 04/06/08

Batch Code: 0608MC02
Ethylbenzene 032213 04
032214 04
032215 04
032216 04
032217 04
Date Analysed: 04/06/08
Date Prepared: 04/06/08

Batch Code: 0608MC02
Isopropylbenzene 032213 04
032214 04
032215 04
032216 04
032217 04
Date Analysed: 04/06/08
Date Prepared: 04/06/08

Batch Code: 0608MC02
Benzene 032213 04
032214 04
032215 04
032216 04
032217 04
Date Analysed: 04/06/08
Date Prepared: 04/06/08

JUN-10-2004 16:51 PSC ANALYTICAL SERVICES 1 905 332 1511 P.09

6/10/04 PASC - Summary of Analysis Pre. Dates

Page MS-9 of 9

Batch Code: 0604DJ01
pH of VOC vials 032218 04
032219 04
Date Aualysed: 04/06/04
Date Prepared: 04/06/04

Batch Code: 0604DJ01

 Batch Code:
 0604DJ01

 Acetone
 032218 04

 032219 04

 Date Analysed:
 04/06/04

 Date Prepared:
 04/06/04

 Batch Code:
 0604DJ01

 Ethylbenzene
 032218 04

 032219 04

 Date Analysed:
 04/06/04

 Date Prepared:
 04/06/04

 Batch Code:
 0604DJ01

 Isopropylbenzene
 032218 04

 032219 04

 Date Analysed:
 04/06/04

 Date Prepared:
 04/06/04

Batch Code: 0604DJ01
Benzene 032218 04
032219 04
Date Analysed: 04/06/04
Date Prepared: 04/06/04

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Page 1 of 1	noitsri (nwo	of contam	Level	180%			_>	1000	40(6.19)	,	 		ģ	*		Reďd By:
PA ANALYSIS REGUESTED	1	·							-· -·	•		REMARKS		· · ·		Rec'd By:
.	Mek Mek Mek Mek Mek Mek Mek Mek Mek Mek	7HLS 09	 ?78	×	* 7 W	×	×	 ×	×			LIMITS		SPECIAL REQUIREMENTS / REGULATIONS		Jumpi 45 pm
Toll Free: 1-800-668-0639 Tel; (905) 332-8788 Fax: (905) 332-9169	100	182-2858	Date Time	1850 40-7-9	70110916	1-1.04 0959	1040	1045	1330			SPECIAL DETECTION LIMITS	MISA	PECIAL REQUIREMEN	•	0 2 04 13
T-011	I Environmenta 164 Senton Roffelo Ave 115, NY 143	Fax#: 2	# Bottles Matrix	1 soil lo	t Soil To	a soil 6	a lios	30,16	3 water 6			55				Received By: C
ANALYTICAL SERVICES 5555 North Service Road Burlington, Ontario L7L 5H7	Company Name: AF Project Manager: A Address: 7815	Phone #: 283-764 Sampled by:	Field Sample ID B) (1+h-0) 1-S	3+(9-8 FE)	56.2 (0-447)	SB-3(4-8Ft)	B-4(04A)	M-W. Z		<u>i</u> .	PROJECT INFORMATION PLO 14	Sile: Colonk Aug	PO#:	Philip Project #:	2 Envivormental
ANA 5555 1 Burlin	CLIENT	HES-032213	Philip Use Only	32214 SB.	No 72-58	15 50		17 S.	(A) H		 	TAT (Turnaround Time) RUSH TAT MUST HAVE	some exceptions apply	STD 10 Business Days STD 8 Business Days RUSH 5 Business Days RUSH 9 Riiciness Days	RUSH 1 Business Days Other Business Days	174



C & W					Su	bsurface Log	Hole No:			Date Started:	6/2/04
Environmental, LLC Client: AFI Environmental Method of						Investigation Advance		1 of		Date Finished:	6/2/04
Location: 111 Colgate Ave						Investigation: Advance 4			er açe	suate imed sampier,	
Project no: B5145						utilizing a d Drilling Co.: C & W Envi			,	Weather:	60° F
						Driller: Dennis Hoff			ľ	7 V G 21 U TG (.	Overcast
Proj. Mgr: Mark Wilder Geologist: AFI Personnel						Drill Rig: 54DT Direct			1		Overcast
Geold	gist.	A 1 1 613				Dilli rug. 54D1 Dilec	r rusii rag		\dashv		
D4-		Oneth	Sampl		Bassina				1		
Depth (ft.)	No.	Depth (ft.)	Blows /6"	-N-	Recovery (%)	Sample D	escription			Groundwater and	Other Observations
	1	0'-4'			62.5	1.5' of crushed stone and		and			
							•				
				, T							
5 _	2	4'-8'			62.5	4" of wet silty sand. A gr	adational ch	ange to	Ì		
						wet brownish-gray clay.					
									j		
				_							
10									- }		
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						Bottom of hole is at 8.0' b	elaw ground	d surface.	.		
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-30											
Sample					T - Challe	Tubo		Cernent		ckfill Well Key	Native Fill
		Spoon: k Core:			T = Shelby O=	rube:		Sand		1 4 1 4 4	Bentonite
N = ASTM D1586							£1111111111111111111111111111111111111				

C & W Environmental, LLC						bsurface Log	Hole No: SB3 Sheet: 1 or 1		6/2/04 6/2/04		
1						•	Investigation: Advance 48" long by 2" diameter Acetate lined sampler,				
Location: 111 Colgate Ave.							rect push drill rig.	J			
		B5145				Drilling Co.: C & W Envi		Weather:	60° F		
	-	Mark Wi		,		Driller: Dennis Hoff		}	Overcast		
Geolo	gist:	AFI Pers				Drill Rig: 54DT Direct	t Push Rig				
			Sampl	e	<u> </u>			ł			
Depth (ft.)	No.	Depth (fL)	Blows /6"	'N"	Recovery (%)	Sample D	escription	Groundwater and	Other Observations		
	1_	0'-4'			42.5	3" of wet concrete and sto	one. 1.4' of brown				
						fine grained moist sandy-	silt				
- 6 -	2	4'-8'			72.5	Water encountered at 4'.					
- 6						6" of silty sand to grayis	h silty clay.				
						1' of brownish-gray day,	tight, dense.				
						8" of wet silty sand.					
						`					
10				_							
			·			Bottom of hole is at 8.0' b	elow ground surface				
- 15 -											
				\vdash							
	_										
								,			
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- 20											
- 25 -											
- 25											
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-30	[
-30-											
[
Sample S = 3	Typ Split	es: Spoon:			T = Shelby	Tube:	Cement	Backfill Well Key	Native Fill		
S = Split Spoon:					0=		Sand		Bentonite		

0.0 W				Subsurface Log Hole No: SB4		Date Started:	6/2/04		
C & W Si Environmental, LLC					J	naniace FOA	l		
						Investigation: Advance 48" long by 2" dlameter Acetate lined sampler,			
Location: 111 Colgate Ave.						_	irect push drill rig.	Sale inter sample.	
Project no: B5145						Drilling Co.: C & W Envi		Weather:	60° F
Proj.	Mgr:	Mark Wi	lder			Driller: Dennis Hoff	man		Overcast
Geolo	gist:	AFI Pers	onnel			Drill Rig: 54DT Direct	t Push Rig		
ĺ	ļ,		Sampl	е		1			
Depth (ft.)	No.	Depth (ft.)	Blows /8"	"N"	Recovery (%)	Sample D	escription	Groundwater and	Other Observations
İ	1	0'-4'		_	25	1" of stone, followed by 1	0" of moist brown fine		
						grained silty sand.			
l	2	4'-8'		_	87.5	3' of grayish-brown wet o	Yey dense and	· ·	
– 5 –	_				67.5	compact.	Jay, dense allu	,	
						Compact			
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10 -				<u>.</u>					
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						Bottom of hole is at 8.0' b	elow amund surface		
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Sample	Tvn	88:					Cernent	ackfill Well Key	Native Fill
\$ =	Split	Spoon:			T = Shelby	Tube:	<u></u>		
S = Split Spoon:T = Sh R = Rock Core:O= N = ASTM D1586					0=		Sand		Bentonite





Nailing the details Since 1981

Construction Lending Services, Inc. P.O. Box 272 Buffalo, NY 14205 Phone: 716-854-0937 Fax: 716-854-0718

www.clsnailsit.com

EM-61 (MAGNETOMETER) SURVEY

for

COMMERCIAL PROPERTY 111 COLGATE AVENUE BUFFALO, NEW YORK

PREPARED FOR:

AFI ENVIRONMENTAL 7815 BUFFALO AVENUE NIAGARA FALLS, NEW YORK 14304

PREPARED BY:

CONSTRUCTION LENDING SERVICES, INC. P.O. BOX 272 BUFFALO, NEW YORK 14205

> PROJECT NO. 04CLS161.90 DATE: June 8, 2004

Rochester	Syracuse	Maryland	Albany	NYC	Harrisburg



Construction Lending Services, Inc. P.O. Box 272 Buffalo, NY 14205

> Phone: 716-854-0937 Fax: 716-854-0718 www.clsnailsit.com

Nailing the details Since 1981

June 8, 2004

AFI Environmental 7815 Buffalo Avenue Niagara Falls, New York 14304

ATTN: Mr. Elby Benton

RE: SUMMARY REPORT: Magnetometer Survey and Limited Subsurface Investigation,

111 Colgate Avenue (Former Ameron Facility), Buffalo, New York

Dear Elby:

Construction Lending Services, Inc. (CLS) is pleased to submit this summary report for the performance of a Geonics EM-61 magnetometer survey undertaken at the above-referenced property on June 2, 2004 (refer to Figure #1). The methodology and results of the investigation are presented in the sections below.

1.0 Magnetometer Survey

The purpose of the geophysical (i.e., magnetometer) survey was to determine the presence/absence of potential underground storage tanks (USTs) which may be present at the former facility. The EM-61 is a highly sensitive, two-antenna magnetometer, which is capable of detecting both ferrous (i.e., iron, steel) and non-ferrous (i.e., copper, aluminum) objects which may be associated with underground USTs, drums, etc. The recorded time-domain data does not distinguish between the ferrous and non-ferrous anomalies which were encountered, nor are any quantitative interpretations made as to the source or type of anomalies as part of this preliminary survey.

The survey was undertaken at the subject property by means of obtaining readings along a grid system with a typical five (5) foot spacing. The magnetometer survey progressed generally east- and westward from the survey origin point (X=0, Y=0), which is located two feet south of the existing fence line along the northern portion of the subject property, near the Colgate Avenue side of the northern existing building.

The EM-61 was programmed to obtain total (i.e., bottom) and top (differential) magnetic readings every 0.63 feet along each of the respective grid lines. The magnetic readings were stored in a data logger during the field activities. Subsequently, the data was downloaded via a laptop computer, and the data was processed by means of a computer gridding program. The results of the EM-61 survey for the property consist of a Section Plan view produced by means of gridding the differential magnetic data points with a modeling program known as QuikGrid™ Version 4.5 (2002). Additional Section Plans labeled as Section "A" and "C" are presented at a larger scale for ease of viewing. Three dimensional representations of the graphed results are also presented.

Rochester	Syracuse	Maryland	Albany	NYC	Harrisburg
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Date: June 8, 2004 Project No.: 04CLS161.90

Based on the results of the EM-61 survey, the presence of at least seventeen (17) anomalies, some or all possibly associated with former underground storage tank (USTs), were identified. The locations of the anomalies are referenced to the survey origin point, and the potential sources of the anomalies are listed in the attached Table No. 1.

2.0 Conclusions

Construction Lending Services, Inc. undertook a magnetometer survey to investigate the presence/absence of the suspected USTs at the subject property. Based on the results of the magnetometer survey, anomalies, all or some associated with USTs, were identified on the subject property.

Thank you for the opportunity to assist you with this project. Please call the undersigned at your earliest convenience, if you have any questions.

Very truly yours,

CONSTRUCTION LENDING SERVICES, INC.

Andrew J. Kucserik, CPG, PG

Senior Geologist

Manager of Environmental Services

David J. Topian

President

Attachments

Figures Site Topographic Map

Section Plan Map Section "A" View

Section "A" and "B" Three Dimensional Views

Section "C" View

Section "C" Three Dimensional View

Tables Magnetic Anomalies

TABLE NO. 1

LOCATION OF SUSPECTED MAGNETIC ANOMALIES
BASED ON EM-61 SURVEY AND QUIKGRID™ RESULTS

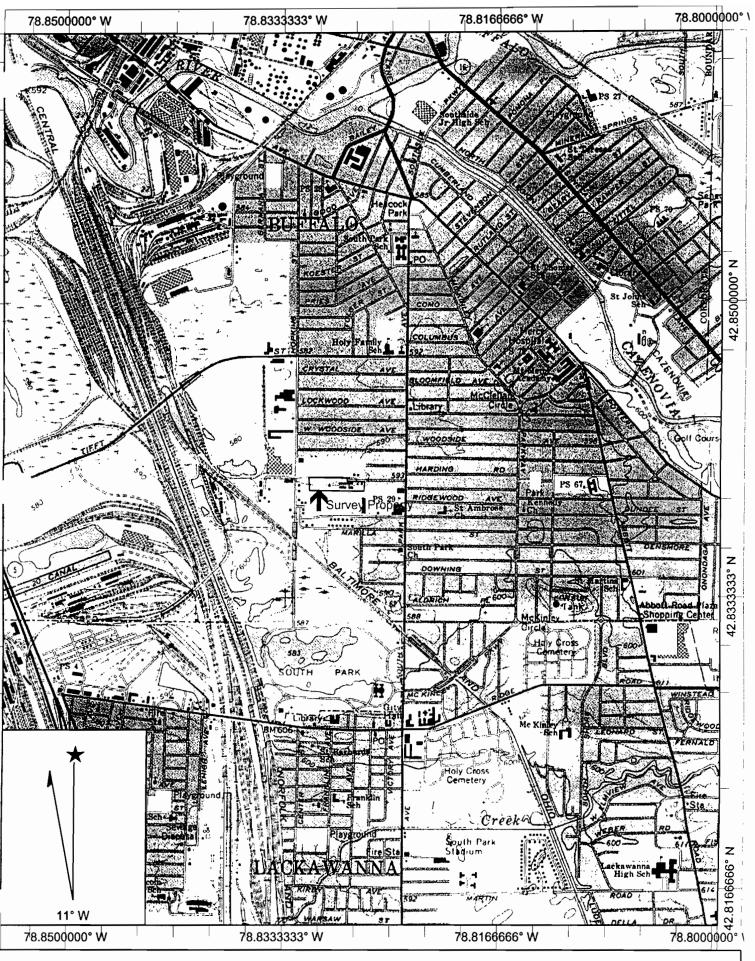
Date: June 8, 2004

Project No.: 04CLS161.90

ANOMALY	WESTING (Feet) (Note 1)	SOUTHING (Feet) (Note 2):	POTENTIAL ANOMALY SOURCE
1	-30.0	3.5	Suspected UST
2	-21.1	6.6	Suspected UST
3	-6.9	16.9	Suspected UST
4	-16.0	42.5	Suspected UST
5	-36.3	40.9	Suspected UST
6	-25.6	56.2	Suspected UST
7	-21.1	75.7	Suspected UST
8	-20.0	91.3	Suspected UST
9	-35.9	104.6	Suspected UST
10	-30.2	123.0	Suspected UST
11	-65.0	132.9	Suspected UST
12	-80.0	128.4	Suspected UST
13	-131.1	152.4	Unknown
14	-163.3	-42.4	Unknown
15	-123.0	-80.5	Underground utilities at AST?
16	-152.8	-130.0	Along south wall of building
17	-104.7	-121.3 to -184.0	Along north wall of building

NOTE 1: These dimensions are referenced to the Survey Origin Point where a negative dimension indicates a distance to the south of the Survey Origin Point.

NOTE 2: These dimensions are referenced to the Survey Origin Point where a negative dimension indicates a distance to the east of the Survey Origin Point.

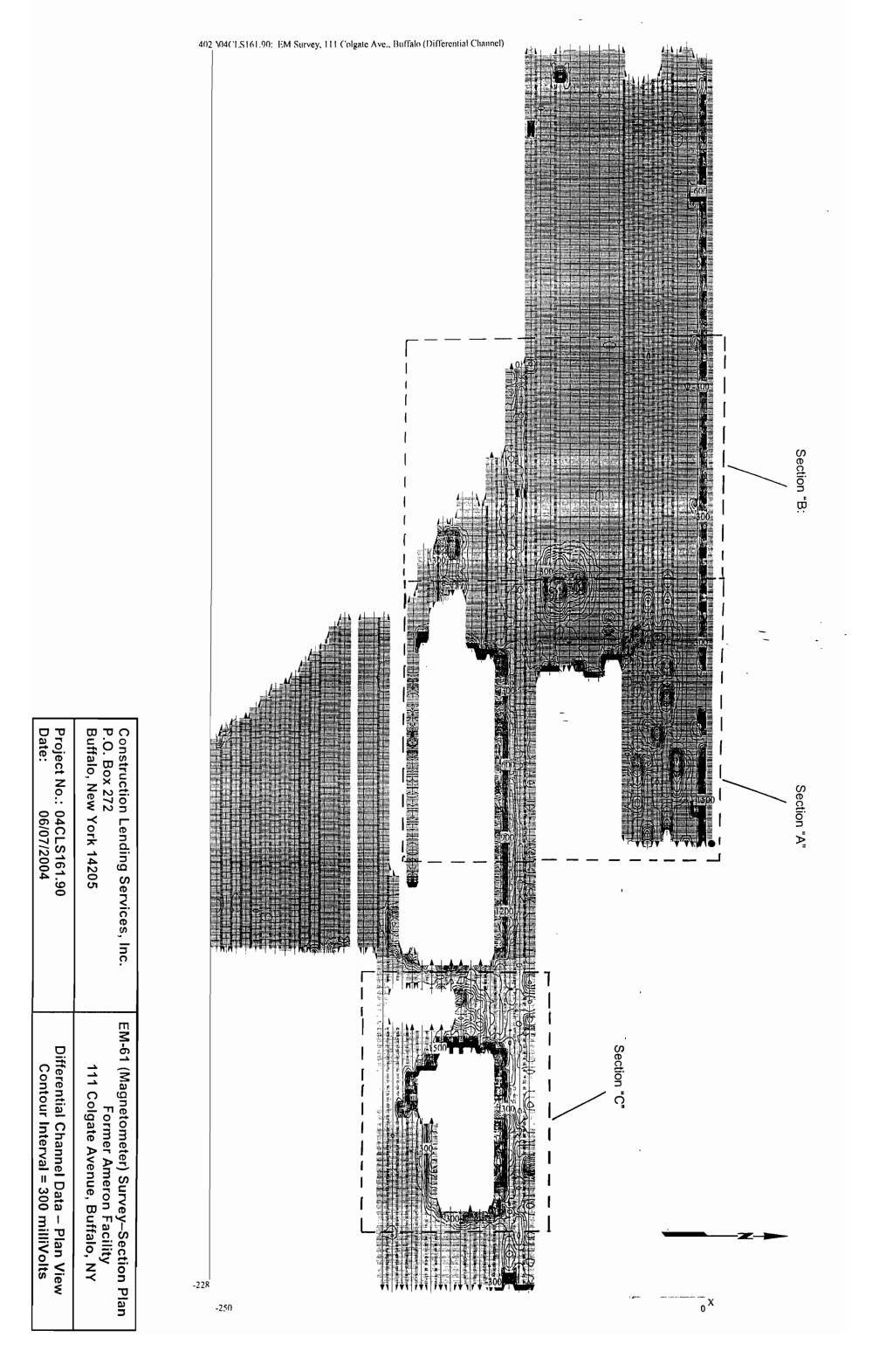


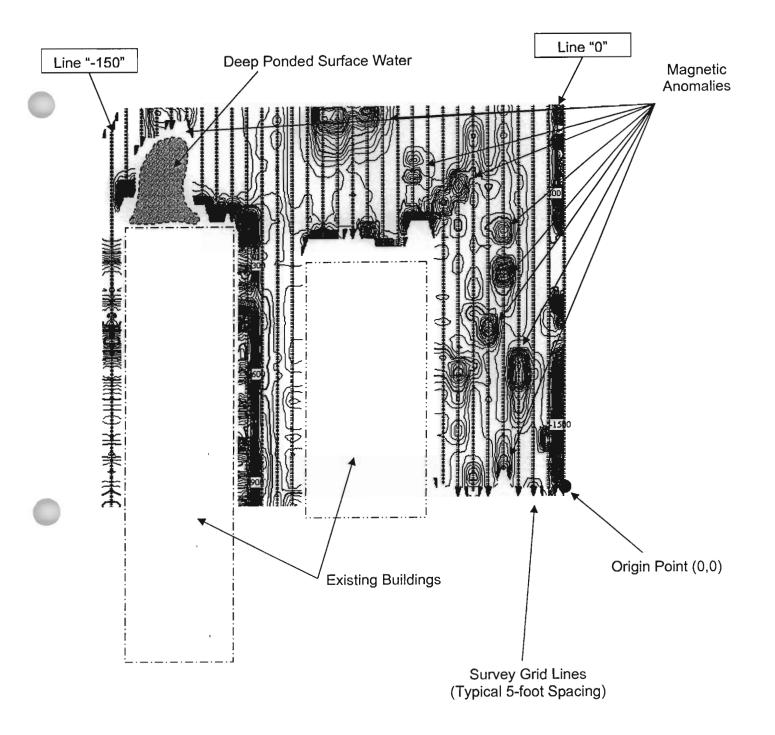
Name: BUFFALO SE Date: 6/8/2004

Scale: 1 inch equals 2000 feet

Location: 042.8400959° N 078.8273147° W Caption: 04CLS161.90: EM Survey,

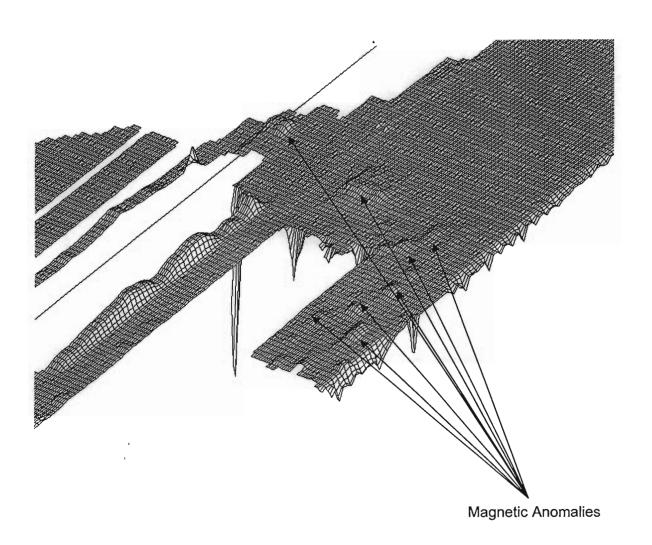
111 Colgate Avenue, Buffalo, New York





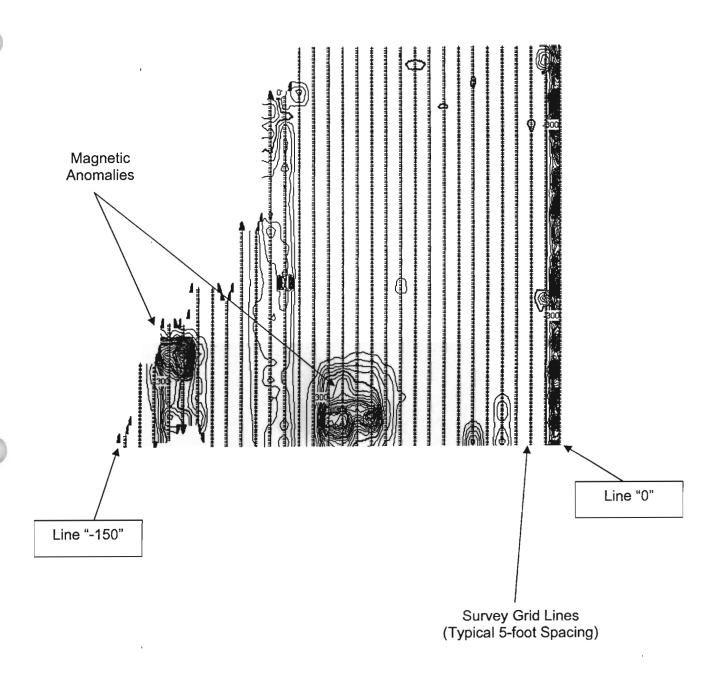


onstruction Lending Services, Inc. P.O. Box 272 Buffalo, New York 14205	EM-61 (Magnetometer) Survey – Section "A" Former Ameron Facility 111 Colgate Avenue, Buffalo, NY
Project No.: 04CLS161.90	Differential Channel Data – Plan View
Date: 06/07/2004	Contour Interval = 300 milliVolts



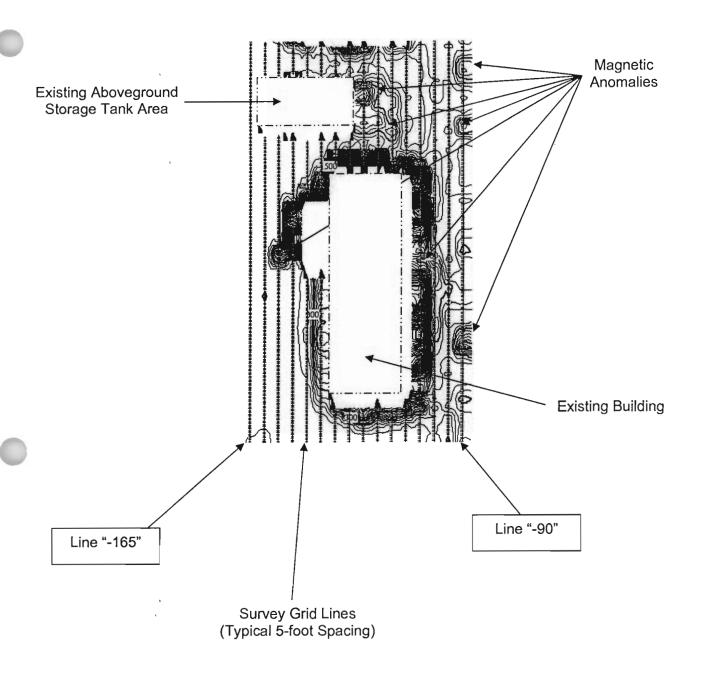


Construction Lending Services, Inc. P.O. Box 272 Buffalo, New York 14205	EM-61 (Magnetometer) Survey – Section "A" Former Ameron Facility 111 Colgate Avenue, Buffalo, NY
Project No.: 04CLS161.90 Date: 06/07/2004	Differential Channel Data – 3D View Angle of Viewing: a=35, e=35



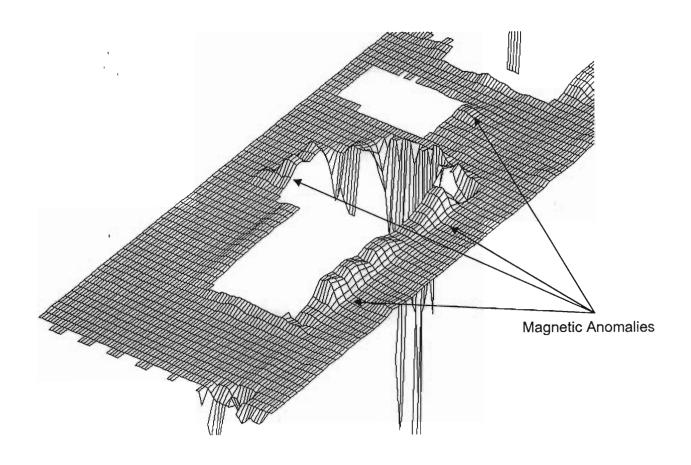


P.O. Box 272 Buffalo, New York 14205	EM-61 (Magnetometer) Survey – Section "B" Former Ameron Facility 111 Colgate Avenue, Buffalo, NY
Project No.: 04CLS161.90 Date: 06/07/2004	Differential Channel Data – Plan View Contour Interval = 300 milliVolts





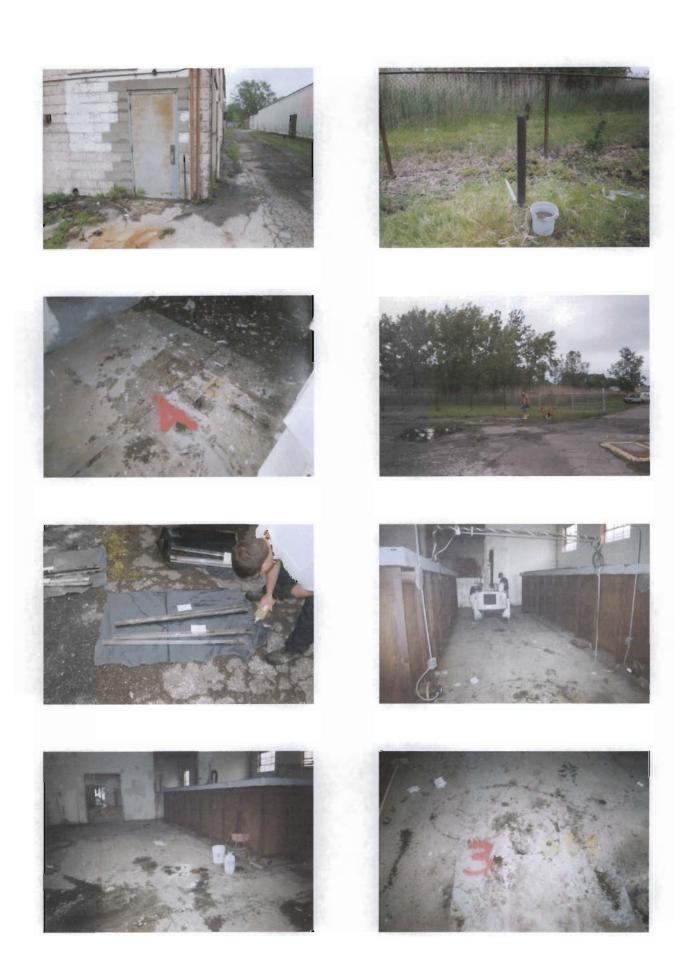
P.O. Box 272 Buffalo, New York 14205	EM-61 (Magnetometer) Survey–Section "C" Former Ameron Facility 111 Colgate Avenue, Buffalo, NY
Project No.: 04CLS161.90	Differential Channel Data – Plan View
Date: 06/07/2004	Contour Interval = 300 milliVolts





Construction Lending Services, Inc. P.O. Box 272 Buffalo, New York 14205	EM-61 (Magnetometer) Survey – Section "C" Former Ameron Facility 111 Colgate Avenue, Buffalo, NY
Project No.: 04CLS161.90	Differential Channel Data – 3D View
Date: 06/07/2004	Angle of Viewing: a=35, e=35















SUBSURFACE SOIL INVESTIGATION AND WATER ANALYSIS MW2 AT AMERON SITE 111 COLGATE AVENUE BUFFALO, NEW YORK

AFI Environmental

7815 Buffalo Avenue Niagara Falls, New York 14304 AFI Project No. P1014

NOVEMBER 2001



AFI Environmental

7815 Buffalo Avenue Niagara Falls, New York 14304 716-283-7645 Fax: 716-283-2858

November 30, 2001

Mr. Myles Culhane Ameron International Ameron Center 245 South Los Robles Avenue Pasadena, CA 91101-2820

RE: Subsurface Soil Investigation and
Water Analysis MW2
at Ameron Site
111 Colgate Avenue, Buffalo, New York
AFI Project No. P1014

Dear Mr. Culhane:

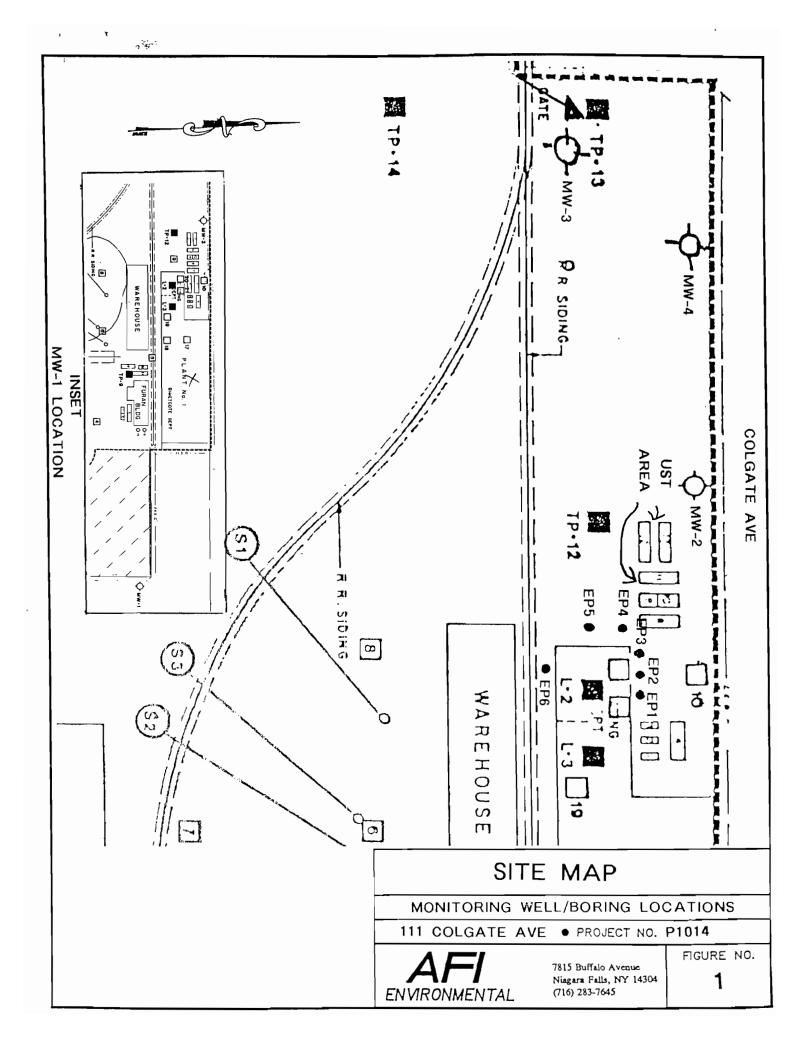
AFI Environmental (AFI) has prepared this letter report to summarize the results of a Limited Subsurface Soil Investigation and Chemical Water Analysis of Monitoring Well #2 (MW2) conducted at the former Ameron Site located at 111 Colgate Avenue, Buffalo, Erie County, New York, October 9, 2001, on behalf of Mr. Craig Slater, Esq., of Harter, Secrest & Emery LLP.

Purpose of Study

The purpose of this Limited Subsurface Soil Investigation and Water Analysis of Monitoring Well #2 (MW2) was to determine the effectiveness of a soil vapor recover system operating for the past ten (10) years within the concrete block and brick building located at the western edge of Building #1 (See Site Map).

In order to address this issue, AFI was asked by Mr. Craig Slater, Esq. of Harter, Secrest & Emery LLP and retained by Ameron, to conduct a subsurface soil investigation near the perimeter and down gradient of Building #1, and the SVE treatment system. AFI's investigation conducted on October 9, 2001 included the following tasks:

- 1. Installation of six (6) geoprobe borings through 9" pavement/concrete top layer and to a depth of 8 feet BGS.
- 2. Collection of continuous 2' split-spoon samples advanced with a geoprobe sampler from surface to a depth of 8 feet BGS. Four (4) samples were collected from each bore hole.
- 3. Headspace scanning for Volatile Organic Carbons using a "mini-rae" PID meter from a sample representative of each split-spoon for each of the six (6) borings.



Mr. Myles Culhane Page 2 November 30, 2001

- 4. Chemical analysis of six (6) subsurface soil samples for target compound list; one soil sample representing the 2 ft. zone with highest PID readings at each bore hole location.
- 5. Recording of water level measurements from monitoring wells MW1, MW2, MW3, MW4 across the site.
- 6. Well development and water sample collection from MW2.
- 7. Analysis of MW2 water sample for target compound list.
- 8. Repair of monitoring well MW3. Repairs were made of the surface/weather collar down to the grout seal above the sand pack and above well screen.

AFI has prepared this summary report to:

- 1. Present details concerning the methods employed to collect and analyze soils and water samples;
- 2. Describe subsurface conditions encountered;
- 3. Evaluate resultant data with respect to the occurrence of contamination;
- 4. Compare contaminant concentrations with applicable regulatory levels;
- 5. Provide recommendation for further investigation and remedial action at the site.
- 6. Describe the monitoring well repair procedures used at MW3.

Site History

This site has been on the DEC Registry of Inactive Hazardous Waste Sites (Site No. 915133) for over ten (10) years. The listing of this site resulted from the determination that the protective coatings manufacturing facility was operated between 1960 to approximately 1982, during which time contaminants of concern were used, including methylethyl, ketone, other ketones, acetone, xylenes, and various benzene-based compounds. As the result of the listing of this property, Ameron signed an Order on Consent in 1985 compelling remediation of the site, primarily associated with Plant No. 1. Plant No. 1 had associated with it contaminants of concern underneath the building slab. Although other minor remedial elements were completed, the primary remediation required was to install a vapor collection ventilation system under the two westernmost rooms of Plant No. 1. Under their Order on Consent, Ameron was required to operate SVE System for a period of ten (10) years which, concluded sometime in 1996.

While DEC acknowledged that all of Ameron's obligations under the Order on Consent were completed to their satisfaction, DEC continues to list this site on the Registry of Inactive Hazardous Waste Sites as a Class 4, which connotes a site properly closed but requires continued management. DEC refused, based

Mr. Myles Culhane Page 3 November 30, 2001

on the data it had in hand in 1999, to change the site classification to Class 5 (site properly closed, does not require continued management) or remove the site from the Registry altogether.

Ameron desired to have this site removed from the DEC Registry completely and, for that purpose, has contracted AFI Environmental to implement a Focused Environmental Investigation in the area of the potential impact (primarily in the area adjacent to the SVE System) to confirm that the SVE successfully remediated contaminants of concern to levels below DEC TAGM 4046.

AFI took special precaution to assure that all earthprobe - soil borings did not penetrate any of the USTs located to the west of Building #1 (see Site Map for location) of USTs.

Subsurface Investigation

On October 9, 2001, a total of six (6) earthprobe - soil borings (EP #1-6) were completed by AFI and their subcontractors to a maximum depth of 8.0 feet below ground surface (BGS). Each of these borings were positioned so as to determine soil conditions on site and to identify the possible presence of subsurface contamination outside the treatment building (building #1) at the Ameron Site located at 111 Colgate Avenue, Buffalo, New York.

Soil Boring

A Simco Drill-team 2400 earthprobe was utilized to secure continuous soil samples. At the completion of every soil sampling interval, the split-spoon samplers were decontaminated by a rinse wash combined with a concentrated surfactant and a clean water second rinse to complete decontamination.

Sample Analysis

A total of six (6) subsurface soil samples were obtained and submitted for chemical analysis. Samples were assembled from a representative subsample collected from each 2' interval from split-spoon. Samples were evaluated for volatiles in headspace using a PID meter. Samples from each 2' split spoon interval exhibiting the highest PID readings from each earthprobe - soil borings were sent for analysis. Based on visual/sensory observation and PID screening results, one (1) grab sample was obtained from borings EP#1 (0'-2'), EP#2 (6'-8'), EP#3 (2'-4'), EP#4 (6'-8'), EP#5 (6'-8') and EP#6 (6'-8') interval). These six (6) samples were analyzed for volatile and semi-volatile organic compounds (EPA 8021 and EPA 8270 respectively) and TCLP metals (EPA 6010B). Field sampling records, which were prepared for each sampling location, the chain-of-custody record and the analytical results are presented in Appendix A. The results of the chemical analysis are discussed below.

Findings of Investigation

Subsurface Soils

Fill material was encountered below a thin surficial asphalt layer 0.1' foot thick. The fill material consisted of (SANDY-SILT) to (SAND) textured material with gravel contents ranging from 15 to

Mr. Myles Culhane Page 4 November 30, 2001

as much as 60 percent. The fill material is present to a range of depths from 3.5 to 4.5 feet BGS across the investigated area, with the exception of EP#2 at which fill material was encountered to a completion depth of 8.0 feet. It should also be noted that EP#1 encountered fill material to a refusal depth of 4.5 feet.

The natural soils encountered below the fill were variable, consisting of water sorted and deposited (SILTY-SAND) with varying amounts of as described in EP#3 and EP#4 to (SILT) and (CLAYEY-SILT) textured slack water sediment as described in EP#5 and EP#6 (refer to boring logs).

Detailed soil description of each interval samples and the corresponding PID screening results as well as other pertinent boring information are included in the Test Boring Logs presented in Appendix B.

PID screening performed during the boring investigation revealed four (4) earthprobe-soil borings with PID readings above background (5 PPM).

Water Level/Well Development

On October 9, 2001, water levels and total depths were gauged at four (4) previously installed 2" monitoring wells present on the subject site (- MW#1, MW#2, MW#3 and MW#4). Monitoring well #2 was then developed (purged of a minimum of 3.5 well volumes) to obtain a representative water sample for analytical testing (refer to Water Level/Well Development Table - Appendix C).

The water sample was analyzed for volatile and semi-volatile organic compounds (EPA 8021 and EPA 8270 respectively) and TCLP metals (EPA 6010B).

Analytical Results

All soil samples were analyzed for the volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) and TCLP metals listed in the *Spill Technology and Remediation Series* (STARS) Memo #1, published by the New York State Department of Environmental Conservation (NYSDEC) using EPA methods 8021 and 8270 (STARS List) direct and EPA 6010 and 7470 for TCLP metals.

The analytical results for the six (6) soil samples are presented in Table #4 and results are summarized in Table #3 and compared to the NYSDEC TAGM 4046 for TCLP; the Alternative Methodology Comparison is also provided. The complete Analytical Reports with chain-of-custody are presented in Appendix A.

Groundwater ...

Table #5 summarizes the analytical results of the water sample from MW2. Benzene was the only chemical found in the water sample above TAGM 4046 Guidance Values or above detection limits.

Mr. Myles Culhane Page 5 November 30, 2001

Well Repair

MW#3 was observed to have a cracked concrete collar with damage to the top seal and grout seal layer. This was repaired by removing the old collar, installing a new grout seal, backfilling to the surface and installing a new 2'x2' concrete collar.

Observations

Volatiles

A review of Table #4 shows that Toluene, Ethylbenzene, m,p-Xylene, o-Xylene exceed the Alternative Guidance Values (20 x extract Guidance Value) at EP2 and EP4. EP3 exceeded the Alternative Guidance Values for Ethylbenzene, m,p-Xylene and o-Xylene. EP5 and EP6 showed exceedance for m,p-Xylene.

Semi-Volatile

Semi-volatiles were in excess of the Alternative Guidance Values at BH3 (EP3) for the entire suite of chemicals from the TAGM 4046.

Table #2 shows the depth of the soil horizon that each sample was collected from and summarizes the chemical data in relationship to the NYSDEC TAGM 4046 Guidance Values for each analytical at each depth and location.

Conclusions/Recommendations

High levels of semi-volatiles were only recorded at EP3. EP3's proximity to two or more underground storage tanks (USTs) suggests that there may be a problem with one or more of the USTs in this area.

The slightly elevated levels of Toluene in soil samples collected from EP2 and EP4 and the significant levels of m,p-Xylene across the site suggests that volatiles are still present in the vicinity of building #1. Elevated levels of Xylene at 0-2 ft. bgs which is above the elevation of the bottom of the footer of Building #1 may be explained by historical railroad operation on sidings that traverse the site in the vicinity of the study area.

Benzene was the only volatile or semi-volatile that exceeded TAGM 4046 Groundwater Standards in a groundwater sample collected at MW2, all other groundwater results were non-detect (ND).

AFI recommends that all USTs be pumped dry, exhumed and that the tank farm be properly closed. The owner must consider excavation and proper disposal of any petroleum contaminated soils resulting from possible tank leakage. Further excavation and disposal of contaminated soils not resulting from possible petroleum UST sources to be conducted in conjunction with the tank pull work. Additional sampling to quantify spatial limits of soil impacts may be warranted instead of excavate and disposal approach. This may be more costly overall, but would allow for the owner to evaluate excavation and disposal costs prior to initiating remedial activities. Installation of a soil vapor extraction and carbon filtration system outside

Mr. Myles Culhane Page 6 November 30, 2001

Building #1 is also an option. AFI also recommended additional soil borings down gradient of Building #1 to define the lateral extent of soil impacts.

AFI also recommends continued water sampling of MW2, and possibly a limited analysis of MW1 and MW3. To establish ground water flow direction, AFI will require to have the wells surveyed and/or for the client to provide well riser elevations to 2nd decimal points.

Sincerely,

AFI ENVIRONMENTAL

William L. Heitzenrater

WLH:smh Enclosure

cc:

Mr. Craig Slater, Esq.

file

afi/p1014/report/ltrrpt.wpd

TABLE 1

WATER LEVELS/WELL DEVELOPMENT TABLE

AMERON SITE 111 Colgate Avenue Buffalo, New York

October 9, 2001

	MW1	MW2	MW3	MW4
TOTAL DEPTH (ft.)	12.4	7.5	10.5	22.2
WATER LEVEL (BGS)	8.7	0.7	3.1	6.7
WATER COLUMN (ft.)	. »,	6.8	¥	
CONV. FACTOR	1	0.17	` .	
WELL VOLUME (gal.)	. And analysis	1.156	the shares — Vingenite — Million of the State	
Total Removed (gal.)		3.5		y 3 September 1
	The state of the s	Silty Bailed Dry Recharged Clean		The second secon

afi/p1014/table.wpd

TABLE 2

BORING/SAMPLE LOG

AMERON SITE 111 Colgate Avenue Buffalo, New York

October 9, 2001

DATE	LOCATION	DEPTH (feet BGS)	PID READINGS ppm
10/9/01	EP1	0'-2'	04.9
10/9/01	EP2	6'-8'	71.9
10/9/01	EP3	2'-4'	192.0
10/9/01	EP4	6'-8'	20.7
10/9/01	EP5	6'-8'	3.0
10/9/01	EP6	0'-2'	196.0

TABLE 3

MONITORING WELL SAMPLE LOG

AMERON SITE 111 Colgate Avenue Buffalo, New York

October 9, 2001

DATE	LOCATION	ANALYTICAL METHOD	EXCEEDING TAGM YES/NO
10/9/01	MW2	8021	NO*
		8270	NO
		TCLP Metals	NO

^{*} Based on change from .07ppb to 1.0 ppb for Benzene in May 5, 1998 NYSDEC Memorandum

ANALYTICAL RESULTS for SOIL SAMPLES BUFFALO, NEW YORK 111 Colgate Avenue TABLE #4

	PROJ	PROJECT NO. P1014	P1014			
TAGM 4046 Soil Cleanup Objectives ppm**	EP1 (ug/Kg)	EP2 (ug/Kg)	EP3 (ug/Kg)	EP4 (ug/Kg)	EP5 (ug/Kg)	EP6 (ug/Kg)
					建筑公司	
0.12	ND	ND	ND	ND	90.	ON .
90.0	ND	ND	ND	ND	ND	ND
8.0	.022	.383	ON	1.24	ND	ND

Allowable Soil Conc.

mdd

.0012

Methyl tert-butyl ether

Volatiles: (8021)

9000

Benzene

Toluene

0.008

TAGM 4046

Constituents

164.0

2.66

24.6

75.0

8.45

.373

1.2

0.012

m,p-Xylene

R

.0927

69.9

9.02

3.63

2

1.2

0.012

2

2

2

2

2

2

2.3

0.023

Isopropylbenzene

o-Xylene

2

2

2

2

2

2

3.7

0.037

n-Propylbenzene

2

2

2

2

2

8

0.1

0.001

1,3,5-Trimethylbenzene

R

.0447

2

2

2

2

3.0

0.03

1,2,4-Trimethylbenzene

R

.0635

4.09

18.0

1.9

6980

5.5

90.0

Ethylbenzene

** All figures based on December 5, 2001 letter and values from Greg Sutton, NYSDEC Region 9

Constituents	TAGM 4046 Allowable Soil Conc.	TAGM 4046 Soil Cleanup Objectives ppm**	EP1 (ug/Kg)	EP2 (ug/Kg)	EP3 (ug/Kg)	EP4 (ug/Kg)	EP5 (ug/Kg)	EP6 (ug/Kg)
Semi- Volatiles:(8270)								
Acenaphthene	2.30	230	ND	ND	3.91	ND	ND	ND
Fluorene	3.65	365	ND	ND	9.55	ND	ND	ND
Fluoranthene	61	1,900	ND	ND	69.7	ND	ND	ND
Anthracene	7	700	ND	ND	26.9	ND	ND	ND
Phenanthrene	2.2	218	ND	ND	88.5	ND	ND	ND
Benzo (a) anthracene	0.028	2.8	ND	ND	38.3	ND	ND ON	ND
Chrysene	0.004	0.4	ND	ND	35.8	ND	ND	ND
Pyrene	9.9	999	ND	ND	113.0	ND	ND	ND
Benzo (b) fluoranthene	0.011	1.1	ND	ND	30.1	ND	N QN	QN
Benzo (k) fluoranthene	0.011	1.1	ND	ND	40.5	ND	ND QN	QN
Benzo (g.h,i) perylene	80	8,000	ND	ND	14.1	ND	ND ND	QN ON
Benzo (a) pyrene	0.11	11	ND	ND	17.7	ND	QN QN	QN ON
					,			

** All figures based on December 5, 2001 letter and values from Greg Sutton, NYSDEC Region 9

ANALYTICAL RESULTS for WATER (MW2) 111 Colgate Avenue BUFFALO, NEW YORK PROJECT NO. P1014

Constituents	Groundwater Stand./Criteria ugL or ppb	MW2 (ug/L)
Volatiles: (8021)		
Methyl tert-butyl ether	10	QN
Benzene	1.0 *	66
Toluene	5	QN
Ethylbenzene	5	ND
m,p-Xylene	5	QN
o-Xylene	5	QN
Isopropylbenzene	5	QN
n-Propylbenzene	5	ND
1,3,5-Trimethylbenzene	5	ND
1,2,4-Trimethylbenzene	5	ND

1	
Ò	

* 0.7 value was revised to 1.0 in May 5, 1998 NYSDEC Memorandum

Constituents	Groundwater Stand./Criteria ugL or ppb	MW2 (ug/L)
Semi- Volatiles:(8270)		
Acenaphthene	20	QN
Fluorene	50	ND
Fluoranthene	90	ND
Anthracene	50	ND
Phenanthrene	50	ND
Benzo (a) anthracene	0.002	ND
Chrysene	0.002	ND
Pyrene	50	ND
Benzo (b) fluoranthene	0.002	ND
Benzo (k) fluoranthene	0.002	ND
Benzo (a) pyrene	0.002	ND

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:

AFI Environmental

Lab Project No.:

01-2562

Client Job Site:

Colgate St.

Lab Sample No.:

9357

Sample Type:

Soil

Client Job No.:

P1014

Date Sampled:

10/09/01

Field Location:

BH1 0'-2'

Date Received:

10/10/01

Field ID No.:

N/A

Date Analyzed: 10

10/16/01

VOLATILE AROMATICS	RESULTS (ug/Kg)	
Methyl tert-butyl Ether	ND< 10.7	
Benzene	ND< 10.7	
Toluene	22.0	
Ethylbenzene	85.9	
m,p-Xylene	57.1	
o-Xylene	373	
Isopropylbenzene	ND< 10.7	
n-Propylbenzene	ND< 10.7	
1,3,5-Trimethylbenzene	ND< 10.7	
tert-Buly/benzene	ND< 10.7	
1.2.4-Trimethylbenzene	ND< 10.7	
sec-Butylbenzene	ND< 10.7	
p-Isopropyitc!uene	ND< 10.7	
n-Butylbenzene	ND< 10.7	
Naphthalene	ND< 53,3	

Analytical Method: EPA 8021

NYS ELAP ID No 10958

Comments: ND denotes not detected

Approved By:

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:

AFI Environmental

Lab Project No.: Lab Sample No.: 01-2562

Client Job Site:

Colgate St.

9358

Client Job No.:

Soil

P1014

Date Sampled: Date Received:

Sample Type:

10/09/01

Field Location:

BH2 6'-8'

10/10/01

Field ID No.:

N/A

Date Analyzed: 10/17/01

VOLATILE AROMATICS	RESULTS (ug/Kg)	
Methyl tert-butyl Ether	ND< 139	
Benzene	ND< 139	
Toluene	383	
Ethylbenzene	1,900	
m.p•Xy!ene	8,450	
o-Xylene	3,630	
isopropylbenzene	ND< 139	
n-Propylbenzene	ND< 139	
1,3,5-Trimethylbenzene	ND< 139	
tert-Butylbenzene	ND< 139	
1,2,4-Trimethylbenzene	ND< 139	
sec-Butylbenzene	ND< 139	
p-lsopropylloluene	ND< 139	
n-Buty/benzene	ND< 139	
Nachthalene	ND< 693	

Analytical Method: EPA 8021

NYS ELAP ID No 10956

Comments: ND denotes not detected

Approved By:



179 Lake Avenue Rochester, New York 14808 716-647-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Soil/Sludge (STARS List)

Client: 01-2562 AFI Environmental Lab Project No.: Lab Sample No.: 9359

Client Job Site: Colgate St.

Sample Type: \$oil Client Job No.: P1014

10/09/01 Date Sampled: Field Location: BH3 2'-4' Date Received: 10/10/01

10/18/01 Field ID No .: N/A Date Analyzed:

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 1,110
Benzene	ND< 1.110
Toluene	ND< 1,110
Ethylbenzene	18,000
m,p-Xylene	75,000
o-Xylene	9,020
Isapropylbenzene	ND< 1,110
n-Propylbenzene	ND< 1,110
1,3,5-Trimethylbenzene	ND< 1,110
tert-Butylbenzene	ND< 1,110
1,2,4-Trimethylbenzene	ND< 1,110
sec-Butylbenzene	ND< 1,110
p-Isopropyltaluene	ND< 1,110
n-Butylbenzene	ND< 1,110
Naphthalene	ND< 2,760

Analytical Method EPA 8021 NYS ELAP ID No.: 10958

Comments ND denotes Not Detected

Approved By: Laboratory Director



179 Lake Avenue Rochester, New York 14808 716-847-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client: **AFI** Environmental

Lab Project No.: Lab Sample No.: 01-2562 9360

Client Job Site:

Colgate St.

Client Job No.:

P1014

Soil

Field Location:

Date Sampled:

10/09/01

BH4 6'-8'

Date Received:

Sample Type:

10/10/01

Field ID No.:

N/A

Date Analyzed: 10/17/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 345
Benzene	ND< 345
⊤oluene	1,240
Etnylbenzens	4,090
m,p-Xylene	24,600
o-Xylane	6,690
Isopropylbenzene	ND< 345
n-Propylbenzene	ND< 345
1,3,5-Trimethylbenzene	ND< 345
tert-Butylbenzene	ND< 345
1,2,4-Trimethylbenzene	ND< 345
sec-Butylbenzene	ND< 345
p-Isopropyttoluene	ND< 345
n-Butylbenzene	ND< 345
Naphthalene	ND< 1,730

Analytical Method: EPA 8021

NYS ELAP ID No., 10958

Comments: ND denotes not detected

Approved By:

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-547-2530 FAX 716-647-3311

Volatile Aromatic Analysis Report For Solids (STARS List)

Client:

AFI Environmental

Lab Project No.:

01-2562

Lab Sample No.:

9361

Client Job Site:

Colgate St.

Sample Type:

Soil

Client Job No.:

P1014

Date Sampled:

10/09/01

Field Location:

BH5 6'-8'

Date Received:

10/10/01

Field ID No .:

N/A

10/18/01 Date Analyzed:

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	60.1
Benzene	ND< 39.0
Toluane	ND< 39.0
Ethylbenzene	63.5
m,p-Xylene	2,660
o-Xylene	92.7
Isopropylbenzene	NO< 39.0
n-Propylbenzene	ND< 39.0
1,3,5-Trimethylbenzene	ND< 39.0
tert-Butylbenzene	ND< 39.0
1,2,4-Trimethylbenzene	44.7
sec-Butylbenzene	ND< 39.0
p-Isopropyltaluene	ND< 39.0
n-Butylbenzene	ND< 39.0
Naphthal e ne	ND< 195

Analytical Method EPA 8021

NYS ELAP ID No : 10956

Comments: ND denotes not detected

Approved By:

SERVICES, INC.

179 Lake Avenue Rochester, New York 14608 716-647-2530 FAX 716-647-2311

Volatile Aromatic Analysis Report For Soil/Sludge (STARS List)

Client:

AFI Environmental

Lab Project No.: Lab Sample No.: 01-2562

Client Job Site:

Colgate St.

9362

Client Job No.:

P1014

Soil

BH6 0'-2'

Date Sampled:

Sample Type:

10/09/01

Field Location:

Date Received:

10/10/01

Field ID No.:

N/A

Date Analyzed:

10/18/01

VOLATILE AROMATICS	RESULTS (ug/Kg)
Methyl tert-butyl Ether	ND< 10,200
Benzene	ND< 10,200
Toluene	ND< 10,200
Ethylbenzene	ND< 10,200
m,p-Xylene	164,000
o-X y lene	ND< 10,200
Isopropyibenzene	NO< 10,200
n-Propylbenzena	ND< 10,200
1,3,5-Trlmethylbenzene	ND< 10,200
tert-Butylbenzene	ND< 10,200
1,2,4-Trimethylbenzene	ND< 10,200
sec-Butylbenzene	ND< 10,200
p-Isopropyltoluene	ND< 10,200
n-Butylbenzene	ND< 10,200
Naphthalene	ND< 25,300

Analytical Method: EPA 8021

NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By:



179 Lake Avenue Rochester, New York 14608 716-647-2630 FAX 716-647-3311

Volatile Aromatic Analysis Report For Non-Potable Water (STARS List)

Client:

AFI Environmental

Lab Project No.:

01-2562

Client Job Site:

Colgate St.

Lab Sample No.:

9363

Client Job No.:

P1014

Sample Type:

Water

Field Location:

MW2

Date Sampled: Date Received: 10/09/01

Date Analyzed:

10/10/01

Field ID No.:

N/A

10/12/01

VOLATILE AROMATICS	RESULTS (ug/L)	
Methyl tert-butyl Ether	ND< 2.00	
Benzene	0.99	
Toluene	ND< 2.00	
Ethylbenzene	ND< 2.00	
m,p-Xylene	NO< 2.00	
o-Xyiene	ND< 2.00	
sopropylbenzene	ND< 2.00	
n-Propylbenzene	ND< 2.00	
1,3,5-Trimethylbenzene	ND< 2.00	
tert-Butylbenzena	ND< 2.00	
1,2,4-Trimethylbenzene	ND< 2.00	
sec-Butylbenzene	ND< 2.00	
p-Isopropyltoluene	ND< 2.00	
n-Eutylbenzene	ND< 2.00	
Naphthalene	ND< 5.00	

Analytical Method EPA 8021

NYS ELAP ID No 10958

Comments: ND denotes not detected

Approved By:



PARADIGM

Client:

AFI Environmental

Lab Project No.: Lab Sample No.: 01-2562

9357

Client Job Site:

Colgate St.

Sample Type:

TCLP Extract

Client Job No.:

P1014

Date Sampled:

10/09/2001

FleId Location:

BH1 0'-2'

Date Received:

10/10/2001

Field ID No.:

N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	5.0
Barium	10/12/2001	EPA 6010	0.464	100.0
Cadmium	10/12/2001	EPA 6010	<0.025	1.0
Chromium	10/12/2001	EPA 6010	<0.050	5.0
Lead	10/12/2001	EPA 6010	<0.100	5.0
Mercury	10/12/2001	EPA 7470	<0.0020	0.2
Selenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	_EPA 6010	<0.050	5.0
			.5.,	

ELAP ID No.: 10958

Comments:

Approved By:



PARADIGM

Client:

AFI Environmental

Lab Project No.:

01-2562

9358

Client Job Site:

Colgate St.

Lab Sample No.:

Client Job No.:

P1014

Sample Type:

TCLP Extract

Field Location:

BH2 6'-8'

Date Sampled: Date Received: 10/09/2001 10/10/2001

Field ID No.:

N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	5.0
Barium	10/12/2001	EPA 6010	0.559	100 0
Cadmium	10/12/2001	EPA 6010	<0.025	1.0
Chromium	10/12/2001	EPA 6010	<0.050	5.0
Lead	10/12/2001	EPA 6010	<0.100	5.0
Mercury	10/12/2001	EPA 7470	<0.0020	0.2
Sejenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	EPA 6010	<0.050	5.0

ELAP ID No. 10958

Comments:

Approved By:



PARADIGM

Client:

AFI Environmental

Lab Project No.: Lab Sample No.: 01-2562

9359

Client Job Site:

Colgate St.

Sample Type:

TCLP Extract

Client Job No.:

P1014

Date Sampled:

10/09/2001

Field Location:

BH3 2'-4'

Date Received:

10/10/2001

Field ID No.:

N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<u><0.100</u>	5.0
Barium	10/12/2001	EPA 6010	1.05	100.0
Cadmium	10/12/2001	EPA 6010	<0.025	1.0
Chromium	10/12/2001	_EPA 6010	0.062	5.0
Lead	10/12/2001	EPA 6010	4.20	5.0
Mercury	10/12/2001	EPA 7470	_<0.0020	0.2
Selenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	EPA 6010	<0.050	5.0
				_
			<u> </u>	

ELAP ID No. 10958

Comments

Approved By:



Client:

AFI Environmental

Lab Project No.:

01-2562

Client Job Site:

Colgate St.

Lab Sample No.:

9360

Client Job No.:

P1014

Sample Type:

TCLP Extract

Field Location:

BH4 6'-8'

Date Sampled:

10/09/2001

Field ID No.:

N/A

Date Received: 10/10/2001

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	5.0
Barium	10/12/2001	EPA 6010	0.360	100.0
Cadmium	10/12/2001	EPA 6010	<0. <u>025</u>	1.0
Chromium	10/12/2001	_EPA 6010	<0.050	5.0
Lead	10/12/2001	EPA 6010	<0.100	50
Mercury	10/12/2001	EPA 7470	<0.0020	5.2
Selenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	EPA 6010	<0.050	50

ELAP ID No. 10958

Comments.

Approved By:



PARADIGM

Client:

AFI Environmental

Lab Project No.:

01-2562

Client Job Site:

Lab Sample No.:

9361

Colgate St.

Sample Type:

TCLP Extract

Client Job No.:

P1014

Date Sampled:

10/09/2001

Field Location:

BH5 6'-8'

Date Received:

10/10/2001

Field ID No.:

N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	5.0
Barium	10/12/2001	EPA 6010	0.598	100.0
Cadmlum	10/12/2001	EPA 6010	<0.025	1.0
Chromium	10/12/2001	EPA 6010	<0.050	5.0
<u>Lead</u>	10/12/2001	EPA 6010	<0.100	5.0
Mercury	10/12/2001	EPA 7470	<0.0020	0.2
Selenlum	10/12/2001	EPA 6010	<0.100	1.0
Silver	1 <u>0</u> /12/2001	EPA 6010	<0 050	5.0
_				

ELAP ID No. 10958

Comments

Approved By:



PARADIGM

Client:

AFI Environmental

Lab Project No.:

01-2562

9362

Client Job Site:

Colgate St.

Lab Sample No.:

Client Job No.:

P1014

Sample Type:

TCLP Extract

Field Location:

BH6 0'-2'

Date Sampled:

10/09/2001

Field ID No.;

NΑ

Date Received: 10/10/2001

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	5.0
Barium	10/12/2001	EPA 6010	0.706	100.0
Cadmium	10/12/2001	EPA 6010	<0.025	10
Chromium	10/12/2001	EPA 6010	<0.050	5.0
Lead	10/12/2001	EPA 6010	36.6	5.0
Mercury	10/12/2001	EPA 7470	<0.0020	0.2
Selenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	EPA 6010	<0.050	5.0
		_	-20	

ELAP ID No.: 10956

Comments:

Approved By:



Client:

AFI Environmental

Lab Project No.:

01-2562

9363

Client Job Site:

Colgate St.

Lab Sample No.:

TCLP Extract

Client Job No.:

P1014

Sample Type: Date Sampled:

10/09/2001

Field Location:

MW2

Date Received:

10/10/2001

Field ID No .:

N/A

Parameter	Date Analyzed	Analytical Method	Result (mg/L)	Regulatory Limit (mg/L)
TCLP Metal Series				
Arsenic	10/12/2001	EPA 6010	<0.100	50
Barium	10/12/2001	EPA 6010	0 112	100.0
Cadmium	10/12/2001	EPA 6010	_<0.025	1.0
Chromium	10/12/2001	EPA 6010	<0.050	5.0
Lead	10/12/2001	EPA 6010	<0.100	5.0
Mercury	10/12/2001	EPA 7470	<0.0020	0.2
Selenium	10/12/2001	EPA 6010	<0.100	1.0
Silver	10/12/2001	EPA 6010	<0.050	5.0

ELAP ID No., 10958

Comments:

Approved By

If acceptable or note deviation: PROJECT NAME/SITE NAME SAMPLE CONDITION: Check box "LAB USE ONLY" Sampled By: Colgate ST (716) 647-2530 * (800) 724-1897 FAX: (716) 647-3311 Rochester, NY 14608 179 Lake Avenue SERVICES, INC. ENVIRONMENTAL PARADIGM र्केस्टिं इस्किट्टिं डे 10-9-01 7 1 DATE 10:55 27.11 (0:31 1:30 34.6 10:05 3711 S13 (SSERGON 3696-286 **B** > R € VIASAK FOR CONTAINER TYPE: SHS 0 10 01 9:15 Am 10/1/01 1:30 Date/Time: BH6 BH 2 m w 2 541 Cell # Date/Time: Hertzenrada SAMPLE LOCATION/FIELD ID Sopramondal 0 2·2 REPORT TO: 1 622-6008 0 کرید 287-2858 PRESERVATIONS: Relinquished By: 14304 the Bolton t H20 300 30, رهٔ در 26, Ser 500 CHAIN OF CUSTODY Z ATT PHONE: CITY COMPANY: ADDRESS: 8270 STARL REQUESTED ANALYSIS HOLDING TIME: INVOICE TO 54.01 @10/01/01 Ĺ Date/Timo: ĬΡ: TEAIPERATURL: LAB PROJECT # TURMAROUND TIME: (WORKING DAYS) P056-16 Total Cost: تو hlold CLIENT PROJECT # PARADIGM LAB SAMPLE NUMBER 0 MACT OI UCD S S 5 Ü



16:48

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

PARADIGM

Semi-Volatile Analysis Report For Solids (STARS List)

Client: AFI Environmental Lab Project No. 01-2562 Lab Sample No. 9357

Client Job Site: Colgate St

Sample Type: Soil

Client Job No.: P1014

Field Location: BH1 0'-2'

Date Sampled: 10/09/01

Field ID No.:

N/A

Date Received, 10/10/01 Date Analyzed: 10/25/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 3,120
Acenaphthene	ND< 3,120
Fluorene	ND< 3,120
Fluoranthene	ND< 3,120
Anthracene	ND< 3,120
Phenanthrene	ND< 3,120
Benzo (a) anthracene	ND< 3,120
Chrysene	ND< 3,120
Pyrene	ND< 3,120
Benzo (b) fluoranthene	ND< 3,120
Benzo (k) fluoranthene	ND< 3,120
Benzo (g,h,i) perylene	ND< 3,120
Benzo (a) pyrene	ND< 3,123
Dibenz (a,h) anthracene	ND< 3,120
Inceno (1,2,3-cd) pyrene	ND< 3,120

Analytical Method: EPA 8270

NYS ELAP ID No 10958

Comments

ND denotes Not Detected

Detection Limit elevated due to nor -target hydrocarbons

Approved By:

Laboratory Director

01256251,XLS



ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Solids (STARS List)

Client:

AFI Environmental

Lab Project No. 01-2562

Lab Sample No. 9358

Client Job Site: Colgate St

Sample Type: Soil

Client Job No.: P1014

Date Sampled: 10/09/01

Fleid Location: BH2 6-8'

Date Received: 10/10/01

Field ID No.:

N/A

Date Analyzed: 10/25/01

COMPOUND	RESULT (ug/Ka)
Naphthalene	ND< 312
Acenaphthene	ND< 312
Fluorene	ND< 312
Fluoranthene	ND< 312
Anthracene	ND< 312
Phenanthrene	ND< 312
Benzo (a) anthracene	ND< 312
Chrysene	ND< 312
Pyrene	ND< 312
Benzo (b) fluoranthene	ND< 312
Benzo (k) fluoranthene	ND< 312
Benzo (g,h,l) perylene	ND< 312
Benzo (a) pyrene	ND< 312
Dibenz (a,h) anthracene	ND< 312
indeno (1,2,3-cd) byrene	ND< 312

Analytical Method EPA 8270

NYS ELAP ID No. 10958

Comments

ND denotes Not Detected

Approved By: _

012562S2 XLS



Semi-Volatile Analysis Report For Solids (STARS List)

AFI Environmental Client:

Lab Project No. 31-2562

Lab Sample No. 9359

Client Job Site: Colgate St

Sample Type: Soil

Client Job No.: P1014 Field Location: BH3 2'-4'

Date Sampled: 10/09/01

Date Received: 10/10/01

Field ID No .: N/A Date Analyzed: 10/25/01

	COMPOUND	RESULT (ug/Kg)
	Naphthalene	ND< 3,430
	Acenaphthene	3,910
	Fluorene	9,550
1	Fluoranthene	69,700
\	Anthracene	26,900
	Phenanthrene	88,500
	Benzo (a) anthracene	38,300
1	Chrysene	35,800
	Pyrene	E 113,000
	Benzo (b) fluoranthene	30,100
1	Benzo (k) fluoranthene	40,500
1	Benzo (g,h,i) perylene	14,100
	Benzo (a) pyrene	17,700
	Dibenz (a,h) anthracene	ND< 3 430
	Indeno (1,2,3-cd) pyrene	ND< 3 430

Analytical Method EPA 8270

NYS ELAP ID No 10958

Qcmments.

ND denotes Not Detected

Eldenotes Estimated Concentration exceeds calibration range

Approved By:

Laboratory Director

C12582\$\$ XL\$



Semi-Volatile Analysis Report For Solids (STARS List)

Client: AFI Environmental Lab Project No. 01-2562

Lab Sample No. 9360

Client Job Site: Colgate St

Sample Type: Soil

Client Job No.: P1014
Fleld Location: BH4 6'-8'

Date Sampled: 10/09/01

Date

Date Received: 10/10/01

Field ID No.: N/A

Date Analyzed: 10/25/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 344
Acenaphthene	ND< 344
Fluorene	ND< 344
Fluoranthene	ND< 344
Anthracene	NC< 344
Phenanthrene	ND< 344
Benzo (a) anthracene	ND< 344
Chrysene	ND< 344
Pyrene	ND< 344
Benzo (b) fluoranthene	ND< 344
Benzo (k) fluoranthene	NO< 344
Benzo (g,h,i) perylene	ND< 344
Benzo (a) pyrene	ND< 344
Olbenz (a,h) anthracene	ND< 344
Indeno (1,2,3-cd) pyrene	ND< 344

Analytical Method EPA 8270

NYS ELAP ID No 10958

Comments

ND denotes Not Detected

Approved By:

Laboratory Director

012562S3 XLS



PARADIGM

Semi-Volatile Analysis Report For Solids (STARS List)

Client: AFI Environmental Lab Project No. 01-2562 Lab Sample No. 9361

Client Job Site: Colgate St

Client Job No.: P1014

Field Location: BH5 6'-8'

Date Received: 10/10/01 Field ID No.:

N/A Date Analyzed: 10/25/01

COMPOUND	RESULT (ug/Kg)
Naphtnalene	ND< 353
Acenaphthene	ND< 353
Fluorene	ND< 353
Fluoranthene	ND< 353
Anthracene	ND< 353
Phenanthrene	ND< 353
Benzo (a) anthracene	ND< 353
Chrysene	ND< 353
Pyrene	ND< 353
Benzo (b) fluoranthene	ND< 353
Benzo (k) fluoranthene	ND< 353
Benzo (g,h,i) perylene	ND< 353
Benzo (a) pyrene	ND< 353
Dibenz (a,h) anthracene	ND< 353
indeno (1,2,3-cd) pyrene	ND< 353

Analytical Method EPA 8270

NYS ELAP ID No. 10958

Sample Type: Soil

Date Sampled: 10/09/01

Comments

ND denotes Not Detected

Approved By:

012562S4.XLS



Semi-Volatile Analysis Report For Solids (STARS List)

AFI Environmental Client:

Lab Project No. 01-2562

Lab Sample No. 9362

Client Job Site: Colgate St

Sample Type: Soil

Client Job No.: P1014 Field Location: BH6 0'-2'

Date Sampled: 10/09/01

Field ID No .: N/A

Date Received: 10/10/01 Date Analyzed: 10/25/01

COMPOUND	RESULT (ug/Kg)
Naphthalene	ND< 3,290
Acenaphthene	ND< 3,290
Fluorene	NC< 3,290
Fluoranthene	NC< 3,290
Anthracene	ND< 3,290
Phenanthrene	ND< 3,290
Benzo (a) anthracene	ND< 3,290
Chrysene	ND< 3,290
Pyrene	ND< 3,290
Benzo (b) fluoranthene	ND< 3,290
Benzo (k) fluoranthene	ND< 3,290
Benzo (g,h ii perylene	ND< 3,290
Benzo (a) pyrene	ND< 3 290
Dibenz (a,h) anthracene	ND< 3,290
Indeno (1,2,3-cd) pyrene	ND< 3,290

Analytical Method. EPA 8270

NYS ELAP ID No., 10958

Comments:

ND denotes Not Detected

Detection Limit is evated due to non-target compounds

Approved By:

Laboratory Director

C1256257.XLS

01-2562



Client Job Site: Colgate St

179 Lake Avenue, Rochester, New York 14608 (716) 647-2530 FAX (716) 647-3311

Semi-Volatile Analysis Report For Water (STARS List)

Client: Lab Project No.: **AFI** Environmental

Lab Sample No.: 9363

Sample Type: Water

Client Job No.: P1014

Date Sampled: 10/09/01 Field Location: MW2 Date Received: 10/10/01 Field ID No .: N/A Date Analyzed: 10/16/01

COMPOUND	RESULT (ug/L)
Naphthalene	ND< 10.0
Acenaphthene	ND< 10,0
Fluorene	ND< 10.0
Fluoranthene	ND< 10.0
Anthracene	ND< 10.0
Phenanthrene	ND< 10.0
Benzo (a) anthracene	ND< 10.0
Chrysene	ND< 10.0
Pyrene	ND< 10.0
Benzo (b) fluoranthene	ND< 10.0
Benzo (k) fluoranthene	ND< 10.0
Benzo (g,h,i) perylene	ND< 10.0
Benzo (a) pyrene	ND< 10.0
Dibenz (a,h) anthracene	ND< 10.0
Indeno (1,2,3-cd) pyrene	ND< 10.0

EPA Analytical Method: 8270 NYS ELAP ID No.: 10958

Comments: ND denotes Not Detected

Approved By: Laboratory Director

9



ENVIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN (716) 937-6527 SENECA FALLS (315) 568-1664

r	7 A T	- <u>-</u> .		40/00	104			Hole Number: EP 1-01		(STO) CO.
		-		10/09						ELEVATION:
ŀ	אכ	IJE(: ا ز					Earthprobe Investigation at the A		
		-						111 Colgate Street, Buffalo, N	ew York	ζ
F	PRE	PAF	RED	FO	₹: _			AFI Environmental		
E	3OF	RING	LO	CAT	ION	: _		See Map		<u>.</u>
	SN	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION	OVM	COMMENTS
0 -	1	1						Asphalt pavement Extremely moist becoming wet below 3.5 feet, brown and dark gray, very gravelly (SAND) fill with 40 to 60% mostly fine size gravel, trace silt	4.9	Asphalt pavement to 0.1 foot over sand and gravel fill with trace silt to refusal
	2								2.5	
5 -	3	★						Earthprobe Boring Refusal at 4.5 feet	2.5	
0 -										
.5 -										
.0 -	10)G(-	FD	BY:	Da	le N	A Gra	mza / Senior Geologist		PAGE 1 of 1



CRITTENDEN (716) 937-6527 ALLS 1664

•		=10	VIF	CIN	IVIE			Hole Number:			SENECA FA (315) 568-
,	TA	Έ: _		10/09	/01			riole Number	EF 2-01		ELEVATION:
F	PRC	JEC	CT:					Earthprobe Inve	estigation at the A		N Site
		_						111 Colgate	Street, Buffalo, N	ew Yorl	<u>k</u>
F	RE	PAF	RED	FO	₹: _			AFI	Environmental		
Е	OF	RING	LO	CAT	ION	: _			See Map		
0 -	SN	6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CL		OVM	COMMENTS
0 -	1	1						Asphalt pavement Moist, distinctly mottled (SANDY- SILT) fill wit size sand	h little very fine	0.0	Asphalt pavement to 0.1 foot over coarse silty fill with little very fine size sand to 0.5 foot over sand and gravel fill to 5.5 feet over sandy fill with little gravel and silt to end of boring
	2	X						Moist, mixed brown and gravelly (SILTY-SAND 50% gravel and red bric very fine to fine size san silt) fill with 40 to k fragments,	0.0	Sife to did of polling
5 -	3	X								0.0	
	4	X						Extremely moist to wet, gravelly (SILTY-SAND 25% mostly fine size grato fine size sand, little si) fill with 15 to evel, very fine	71.9	
		V						Earthprobe Boring Com	pleted at 8.0 feet		
10 -											
15 -											

LOGGED BY: Dale M. Gramza / Senior Geologist



`ATE: ____10/09/01____

CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN (716) 937-6527 SENECA FALLS

Hole Number:	EP 3-01		(315) 568-1664
		ELEVATION :	

PROJECT: _____ Earthprobe Investigation at the AMERON Site

111 Colgate Street, Buffalo, New York

PREPARED FOR: AFI Environmental

BORING LOCATION: See Map										
SI	N	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION	OVM	COMMENTS
1		*						Asphalt pavement Extremely moist, olive gray to dark gray, gravelly (SILTY-SAND) fill with 20 to 40% gravel with red brick fragments, very fine to fine size sand, little silt with occasional pockets of "stone free" (SANDY-SILT)	82.6 192.0	Asphalt pavement to 0.1 foot over sandy fill with some gravel to 4.5 feet over apparent water sorted and deposited sand and some gravel with little silt to end of boring
3	3	X						Extremely moist to wet, gray.	17.4	
4	1	X				-		gravelly (SILTY-SAND) with 20 to 40% mostly fine size gravel, very fine to medium size sand, little silt, weakly stratified	8.1	
		<u>Ψ</u>					eitika	Earthprobe Boring Completed at 8.0 feet		
								mza / Senior Geologist		PAGE 1 of 1

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VIRONMENTAL CONSULTANTS & CONTRACTORS, INC.

CRITTENDEN (716) 937-6527 SENECA FALLS (315) 568-1664

		_						Hole Number: <u>EP 4-01</u>		(315) 566-
				10/09						ELEVATION:
F	PRC	JEC	T:		_			Earthprobe Investigation at the Al	MERON	Site
		_						111 Colgate Street, Buffalo, No	ew York	<u> </u>
F	RE	PAF	RED	FOF	₹: _			AFI Environmental		
E	BOR	ING	LO	CAT	ION	: _		See Map		
	SN	0/ 6	6/ 12	12/ 18	18/ 24	N	L∏Н	DESCRIPTION AND CLASSIFICATION	OVM	COMMENTS
0 -	1	Ň		10				Asphalt pavement	5.8	Asphalt pavement to 0.1 foot over sand and gravel fill with
								Extremely moist, brown, very gravelly, (SILTY-SAND) fill with 40 to 50%		little silt to 3.5 feet over
					-			gravel, very fine to medium size sand, little silt		apparent water sorted and deposited sand with little silt to end of boring
	_	\mathbf{x}						little silt	0.1	·
	2	4							V	
	H	\dashv				1		3.5		
	H	1/					2000 A	Extremely moist to wet, gray.		
	3	*						(SILTY-SAND) with very fine to fine size sand, little silt, weakly thinly	0.0	
5 -								bedded bedded		
_	Ш					ļ				
	4	X				1	7		20.7	
	4	+			-					
		+								
								8.0		
								Earthprobe Boring Completed at 8.0 feet		
					1					
	-						1 1			
10 -	+					1				
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					i					
15 -	\square									
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	-									
20										
20 -	17	CC	LI3	PV	· Do	la N	1 Gro	mza / Senior Geologist		PAGE 1 of 1



CRITTENDEN (716) 937-6527 **SENECA FALLS**

& CONTRACTORS, INC. (315) 568-1664 Hole Number: EP 5-01 ELEVATION: DATE: _____10/09/01 PROJECT: _____ Earthprobe Investigation at the AMERON Site 111 Colgate Street, Buffalo, New York PRÉPARED FOR: AFI Environmental BORING LOCATION: _____ See Map DESCRIPTION AND CLASSIFICATION MVO COMMENTS LITH Asphalt pavement to 0.1 foot over sandy fill with some gravel and little silt to 3.5 0.0 Asphalt pavement Moist, mixed dark gray and dark brown, gravelly (SILTY-SAND) fill with 20 to feet over apparent course silty slack water sediment to 4.0 feet over silty slack water sediment with little clay to end of boring 40% gravel and red brick fragments, very fine to fine size sand, little 0.0 Extremely moist, olive gray (SILT) with 4.0 trace very fine size sand, weakly 0.0 thinly bedded Extremely moist, gray (CLAYEY-SILT) 5 with little clay, weakly thinly laminated 3.0 Earthprobe Boring Completed at 8.0 feet 10 15 -

LOGGED BY: Dale M. Gramza / Senior Geologist

PAGE 1



CRITTENDEN (716) 937-6527

SENECA FALLS (315) 568-1664

								Hole Number: EP 6-01		(315) 568-1			
)ATE:1						ELEVATION:							
PROJECT:							Earthprobe Investigation at the AMERON Site						
	111 Colgate Street, Buffalo, New York												
PREPARED FOR:				₹: _		AFI Environmental							
BORING LOCATION: _				ION	: _	See Map							
^	SN	0/ 6	6/ 12	12/ 18	18/ 24	N	LITH	DESCRIPTION AND CLASSIFICATION	OVM	COMMENTS			
0	1	\triangle				-		Asphalt pavement	196.0	Asphalt pavement to 0.1 foot over sandy fill with little			
	Н							Extremely moist, dark gray, gravelly (SILTY-SAND) fill with 15 to 25% gravel, very fine size sand, little to some		over sandy fill with little gravel and little to some silt to 3.5 feet over silty slack water sediment to end of boring			
		V		_	_			silt	40.7	or boring			
	2	\perp				-			48.7				
					-		3 5	0.4					
		V]		Extremely moist, gray (CLAYEY-SILT) with little clay, weakly thinly laminated						
	3	1			1								
5 –			_										
		X				-			154.0				
	4			-	_	-							
		Ψ				1		Earthprobe Boring Completed at 8.0 feet					
								Dataprobe Boring Completed at 6.0 feet					
10 -	1												
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AMERON Site 111 Colgate Street Buffalo, New York

AFI Environmental 10/09/01

Water Levels / Well Development Table

	MW 1	MW 2	в мм	MW 4
TOTAL DEPTH	12.4	7.5	10.5	22.2
WATER LEVEL	8.7	0.7	3.1	6.7
WATER COLUMN		6.8		
CONV. FACTOR		0.17		
WELL VOLUME		1.156		
Total Removed		3.5		
		Silty Bailed Dry Recharged Clean		