ATTACHMENT 05

PREVIOUS ENVIRONMENTAL INVESTIGATION

LCS Inc. Supplemental Phase II Environmental Site Assessment, Limited Focused Subsurface Soil & Investigation, 300 Ohio Street, Buffalo, New York, NYSDEC Spill Number 0904777. Prepared for the NYSDEC, September 2010.

LCS INC. PHASE II ENVIRONMENTAL SITE ASSESSMENT, LIMITED FOCUSED SUBSURFACE SOIL & INVESTIGATION, 300 OHIO STREET, BUFFALO, NEW YORK, NYSDEC SPILL NUMBER 0904777. PREPARED FOR THE NYSDEC, MAY 2010.



Attachment 5

Previous Environmental Investigations 300 Ohio Street Site Brownfield Cleanup Program Application

A summary of the previous environmental site investigation completed for the Site is presented below.

<u>September 2010 - Supplemental Phase II Environmental Site Assessment,</u> <u>Limited Focused Subsurface Soil & Investigation</u>

LCS Inc. (LCS) conducted a limited site investigation of a portion of the subject property, and the findings are summarized below. Note that the initial May 2010 investigation results were incorporated into the findings of the September 2010 report.

- Visual and olfactory evidence of impacted soil/fill was noted in multiple soil boring locations by field personnel. Elevated photoionization detector (PID) readings for volatile organic compounds (VOCs) were detected in multiple locations across the site, with readings as high as 1,897 ppm being detected.
- Petroleum-impacted soil exceeding NYSDEC Part 375 Industrial SCOs and NYSDEC CP-51 SSCOs for volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) were detected at multiple soil boring locations across the site.
- Elevated PID readings were noted in 280 out of 301 soil sample locations.

The former Petroleum Sales and Services, Inc site is listed on the NYSDEC Petroleum Bulk Storage Record (PBS No. 9-383511) as containing at least 12 underground storage tanks (USTs) and one above-ground storage tank (AST). City of Buffalo Municipal records indicate that several of the tanks have been replaced due to former leaking USTs.

This portion of the Site is also listed on the NYSDEC Spills Database including at least 12 spill events between 1988 and 2010.



Facility Information

Site No.: 9-383511 Status: Active

Expiration Date: 08/17/2007

Site Type: PBS

Site Name: SAM'S TRUCK STOP #110

Address: 300 OHIO ST **Locality:** BUFFALO

State: NY

Zipcode: 14204 County: Erie

Owner(s) Information

Owner: PETROLEUM SALES & SERVICE 300 OHIO ST . BUFFALO, NY. 14204

Mail Contact: PETROLEUM SALES & SERVICE

300 OHIO ST . BUFFALO, NY. 14204

Tank Information

13 Tanks Found

Tank No	Tank Location	Status	Capacity (Gal.)
1	Underground	In Service	10000
10	Underground	In Service	6000
11	Underground	Closed - Removed	12000
12	Underground	Closed - In Place	20000
13	Aboveground - in contact with soil	Closed - Removed	1000
2	Underground	In Service	3000
3	Underground	In Service	6000
4	Underground	Closed - Removed	11000
5	Underground	Closed - Removed	2000
6	Underground	In Service	11000
7	Underground	Closed - In Place	20000
8	Underground	In Service	10000
9	Underground	In Service	10000



Spill Incidents Database Search Results

Record Count: 13 Rows: 1 to 13

Export XLS Export CSV

	Spill Number	Date Spill Reported	Spill Name	County	/City/Town	Address
1.	8804555	08/25/1988	PETROLEUM SALES	Erie	BUFFALO	300 OHIO STREET
2.	9009917	12/12/1990	OIL IN NFG EXCAVATION	Erie	BUFFALO	300 OHIO STREET
3.	9104400	07/24/1991	PETROLEUM SALES & SERVICE	Erie	BUFFALO	300 OHIO STREET
4.	9110763	01/16/1992	PETROLEUM SALES & SERVICE	Erie	BUFFALO	300 OHIO STREET
5.	9302663	05/27/1993	SAM'S TRUCK STOP	Erie	BUFFALO	300 OHIO STREET
6.	9302840	05/27/1993	SAM'S TRUCK STOP	Erie	BUFFALO	300 OHIO STREET
7.	9510010	11/11/1995	SAM'S TRUCK STOP	Erie	BUFFALO	300 OHIO STREET
8.	9610492	11/15/1996	PETRO USA	Erie	BUFFALO	300 OHIO STREET
9.	9709878	11/24/1997	SAM'S TRUCK STOP	Erie	BUFFALO	300 OHIO STREET
10	.9800568	04/14/1998	PETROLEUM SALES & SERVICE	Erie	BUFFALO	300 OHIO STREET
11	. 9805444	07/31/1998	PETROLEUM SALES AND SERVI	Erie	BUFFALO	300 OHIO STREET
12	.0904777	07/24/2009	FORMER SAM'S TRUCK STOP	Erie	BUFFALO	300 OHIO STREET
13	.0911296	01/15/2010	ROADSIDE	Erie	BUFFALO	300 OHIO STREET



Re:

CORPORATI OFFICES
40 LA RIVIERE DRIVE, SCHE 120
BULLALO, NEW YORK 14202

Tit: 800.474.6802 716.845.6145 Fax: 716.845.6164

Offices

BUFFALO NEW YORK September 17, 2010 - Revised

Mr. Eric Warren

Russo Development, Inc. 535 East Main Street Springville, New York 14141

SYRACUSE NEW YORK

NEW YORK

ROCHESTER

Supplemental Phase II Environmental Site Assessment Limited and Focused Subsurface Soil & Investigation

300 Ohio Street Buffalo, New York LCS Project #10B667.22 NYSDEC Spill Number 0904777

ALBANY New York

Dear Mr. Warren:

New York CITY New York

Background

At your request, Lender Consulting Services, Inc. (LCS) documented site investigation activities completed on March 31 through April 2, 2010 at 300 Ohio Street, Buffalo, New York (See Figure 1). The results of that investigation are summarized in LCS' Phase II Environmental Site Assessment Report dated May 7, 2010.

Cottage New York

VALLEY

Subsequently, at your request, LCS documented additional site investigation activities completed on July 26 and July 27, 2010. All test boring locations and soil sampling was completed at the direction of the New York State Department of Environmental Conservation (NYSDEC) and/or their contractors.

Harrisburg Pennsylvania

For the ease of the reader, the results of the field activates summarized in LCS' Phase II Environmental Site Assessment Report dated May 7, 2010, have been included within this report.

PITTSBURGH PENNSYLVANIA

Site Description

<mark>Altoona</mark> Pennsylvania The subject property was historically utilized as a gasoline and diesel filling station and petroleum distribution operation. Multiple gasoline, diesel, #2 heating oil and kerosene underground storage tanks (USTs) are currently or were historically located on the subjected property. Five inoperative pump islands are currently located west and south of the subject structure. The topography of the site is generally level at grade. The Buffalo River is located approximately 250 feet from the subject property; although, does not border the subject property. The subject property is located in a primarily industrial setting.

Baltimore Maryland

Introduction

SALISBURY MARYLAND

The purpose of this intrusive study was to better assess the environmental quality of on-site soils in accessible locations of the subject property. Soil samples were collected for stratigraphic characterization and field monitoring. Select soil samples were submitted for laboratory analysis to supplement field observations.

CLEVELAND Oiiio

The following is a summary of the methods and results of the investigation.

Mr. Eric Warren – Page 2 September 17, 2010

Methods of Investigation

Soil

Soil samples were collected on March 31 through April 2, July 26 and July 27, 2010 with a track-mounted percussion and hydraulically driven drive system equipped with an approximate 2-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were collected within each borehole continuously from the ground surface until a depth of between approximately eight and 16 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum.) Based on the field observations and/or screening results, soils were selected for analysis (see below).

Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected samples were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with the United States Environmental Protection agency (USEPA) SW-846 Methods as summarized below.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Mr. Eric Warren – Page 3 September 17, 2010

Sample Location	Analytical Testing Performed
BH1 (8-10 ft. bgs)	
BH10 (0-2 ft. bgs)	
BH11 (4-8 ft. bgs)	
BH13 (4-8 ft. bgs)	
BH15 (0-2 ft. bgs)	
BH18 (0-4 ft. bgs)	
BH19 (2-4 ft. bgs)	
BH21 (6-8 ft. bgs)	
BH23 (6-8 ft. bgs)	
BH24 (2-4 ft. bgs)	
BH25 (0-4 ft. bgs)	
BH26 (8-10 ft. bgs)	
BH27 (8-10 ft. bgs)	
BH28 (6-8 ft. bgs)	
BH29 (10-12 ft. bgs)	
BH30 (8-12 ft. bgs)	
BH31 (8-10 ft. bgs)	
BH34 (6-8 ft. bgs)	
BH37 (0-4 ft. bgs)	
BH38 (6-8 ft. bgs)	
BH40 (8-10 ft. bgs)	
BH41 (4-8 ft. bgs)	
BH42 (2-4 ft. bgs)	VOCs (STARS List), SVOCs (STARS List)
BH43 (2-4 ft. bgs)	
BH44 (2-4 ft. bgs)	
BH45 (4-6 ft. bgs)	
BH46 (8-10 ft. bgs)	
BH47 (2-4 ft. bgs)	
BH48 (4-6 ft. bgs)	
BH50 (4-6 ft. bgs)	
BH51 (2-4 ft. bgs)	
BH52 (0-4 ft. bgs)	
BH53 (4-6 ft. bgs)	
BH54 (4-8 ft. bgs)	
BH55 (4-8 ft. bgs)	
BH56 (8-10 ft. bgs)	
BH58 (0-4 ft. bgs)	
BH59 (8-10 ft. bgs)	
BH60 (8-10 ft. bgs)	
BH61 (0-2 ft. bgs)	
BH62 (4-8 ft. bgs)	
BH63 (4-8 ft. bgs)	
BH64 (4-8 ft. bgs)	
BH65 (2-4 ft. bgs)	
BH66 (4-8 ft. bgs)	

ft. bgs = feet below ground surface
VOCs (STARS List+ 10 TICs) = Spill Technology and Remediation Series
volatile organic compounds + 10 Tentatively Identified Compounds via USEPA Test Method 8260
SVOCs (STARS List + 20 TICs) = Spill Technology and Remediation Series
semi-volatile organic compounds + 20 Tentatively Identified Compound via USEPA Test Method 8270

Mr. Eric Warren – Page 4 September 17, 2010

Results of Field Investigation

Sixty-six boreholes (BH1 through BH35 and BH37 through BH66) were completed in accessible areas of the subject property proximate to the environmental concerns. Test boring BH36 was not completed due to its proximity to two natural gas utility lines. (See Figure 2.) A total of 301 soil samples were collected for geologic description. Fill material consisting of asphalt, brick, gravel, clay, sand and silt was noted within all of the test borings with the exception of BH26, BH31, BH40 through BH42, BH52, BH55, BH57, BH62 and BH66 to a maximum depth of approximately eight ft. bgs. Generally, the native soils encountered consisted of varying mixtures of gravel, sand, silt and clay to the bottom of the test borings. Apparent groundwater was encountered in BH1, BH4, BH7, BH12, BH18, BH20, BH25, BH29 through BH34, BH37, BH56 and BH58 between approximately four and 12 ft. bgs. Equipment refusal was encountered within test boring BH7, BH49, BH61 and BH65 between approximately two and eight ft. bgs. The cause of the equipment refusal could not be determined; however, is suspected to be due to urban fill materials on-site.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 280 of the 301 soil samples collected. These elevated concentrations ranged from 0.1 parts per million (ppm) to 1,897 ppm (BH11, ~2-4 ft. bgs). Petroleum-type odors were detected in soil samples collected from test borings BH1, BH11, BH12, BH15, BH18, BH19, BH23 through BH29, BH31, BH37, BH38, BH41, BH45, BH51 through BH56, and BH58 through BH63 between approximately the ground surface and 16 ft. bgs. Petroleum-type staining was observed in soil samples collected from test borings BH38, BH41, BH53, BH62 and BH63 between approximately two and eight ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest petroleum-type impact located west, south and east of the subject structure.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

Investigation Analytical Results

The soil samples collected and analyzed detected the following analytes. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

Sample ID	BH1	BH10	BH11	BH13	BH15	BH18	BH19	BH21	BH23	BH24	BH25	TAGM	Part 375
Date Sampled	3/31/10	3/31/10	3/31/10	3/31/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	Recommended Soil	(Unrestricted) Soil
Sample Depth	8-10 ft. bgs 0-2 ft. bgs	0-2 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	0-2 ft. bgs	0-4 ft. bgs	2-4 ft. bgs	6-8 ft. bgs	6-8 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	Cleanup Objectives	Cleanup Objectives
Units	ug/kg	ug/kg	ug/kg	ug/kg	ng/kg	ug/kg	ug/kg	ng/kg	ug/kg	ng/kg	ug/kg	ug/kg	ug/kg
Benzene	×34	10)	C 006	<22	<1,700	750	2,000	1,200	<41,000	<1,900	<740	80	09
Toluene	<34	19	<2,100	<22	<1,700	400 J	C 007	<410	<41,000	<1,900	<740	1,500	700
Ethylbenzene	<34	140	2,000 J	22	<1,700	096	5,300	2,200	<41,000	<1,900	<740	5,500	1,000
m.pXylene	48,	89	4,900	110	<1,700	1,500	3,200	1,900	<41,000	<1,900	<740	1,200*	260*
o-Xylene	434	7.3	1,000 J	27	<1,700	400 J	<780	200 J	<41,000	<1,900	<740	1,200*	260*
Isopropylbenzene	485	92	<2,100	<22	<1,700	4,900	3,000	f 004	<41,000	<1,900	<740	2,300	NL
n-Propylbenzene	434	230	2,000 J	22	<1,700	3,300	2,400	C 008	<41,000	2,000 J	400 J	3,700	3,900
1,3,5-Trimethylbenzene	34	360	3,500	69	<1,700	2,900	3,300	200 J	<41,000	f 006	<740	3,300	8,400
1,2,4-Trimethylbenzene	\$	450	12,000	240	<1,700	2,600	1,200	930	<41,000	1,000 J	700 J	10,000	3,600
tert-Butyl Benzene	\$	<18	<2,100	<22	<1,700	<750	<780	<410	<41,000	<1,900	<740	10,000	11,000
sec-Butylbenzene	434	20	<2.100	<22	<1,700	600 J	C 007	<410	<41,000	<1,900	<740	10,000	5,900
4-Isopropyltoluene	<34	51	<2.100	<22	<1,700	500 J	500 J	<410	<41,000	<1,900	<740	10,000	NL
n-Butylbenzene	<34	130	1,000 J	<22	<1,700	1,500	1,400	<410	<41,000	1,000 J	<740	10,000	12,000
Naphthalene	\$	210	2,900	36	2,300	2,800	3,300	580	<41,000	2,100	920	13,000	12,000

000	Part 375	(Unrestricted) Soil	Cleanup Objectives	ug/kg	09	700	1,000	260*	260*	N	3,900	8,400	3,600	11,000	5,900	Ŋ	12,000	12,000
	TAGM	Recommended Soil	Cleanup Objectives	ug/kg	80	1,500	5,500	1,200*	1,200*	2,300	3,700	3,300	10,000	10,000	10,000	10,000	10,000	13,000
	BH42	4/2/10	2-4 ft. bgs	ng/kg	<390	<390	068>	066>	066>	<390	<390	<390	066>	068>	<390	<390	<390	1,800
	BH41	4/2/10	4-8 ft. bgs	ug/kg	<1,900	<1,900	<1,900	<1,900	<1,900	<1,900	1,000 J	<1,900	1,900	<1,900	<1,900	<1,900	<1,900	<1,900
	BH40	4/2/10	8-10 ft. bgs	ug/kg	<780	<780	<780	<780	<780	<780	<780	<780	<780	<780	<780	<780	<780	<780
S List)	BH38	4/2/10	6-8 ft. bgs	ng/kg	<860	<860	<860	<860	<860	<860	<860	<860	<860	<860	<860	<860	098>	098>
d 8260 (STAR	BH37	4/2/10	0-4 ft. bgs	ug/kg	<1,700	<1,700	3,700	4,700	<1,700	1,000 J	1,800	3,000	13,000	<1,700	<1,700	<1,700	<1,700	4,500
W-846 Method	BH34	4/2/10	6-8 ft. bgs	ug/kg	<700	<700	<700	<700	<700	<700	400 ك	<700	<700	<700	<700	<700	<700	<700
VOCs by USEPA SW-846 Method 8260 (STARS List)	BH31	4/2/10	8-10 ft. bgs	ug/kg	<770	<770	<770	1,300	<i><77</i> 0	<770	<770	400 J	1,200	<770	<770	<770	<770	<770
VOC	BH30	4/2/10	8-12 ft. bgs	ug/kg	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750	<750
	BH29	4/2/10	10-12 ft. bgs	ug/kg	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000	<36,000
	BH28	4/2/10	6-8 ft. bgs	ug/kg	<1,800	<1.800	<1.800	<1.800	<1,800	<1,800	1,000 J	<1,800	<1,800	<1,800	<1,800	<1,800	<1,800	3,100
	BH27	4/2/10	8-10 ft. bgs	ug/kg	<1.800	<1,800	2,000 J	2,400	<1,800	<1,800	2,000 J	2,400	4.600	<1.800	<1,800	<1.800	<1.800	1,000 J
	BH26	4/1/10	8-10 ft. bgs	ug/kg	<710	<710	<710	<710	<710	<710	<710	<710	<710	<710	<710	<710	<710	<710
	Sample ID	Date Sampled	Sample Depth	Units	Benzene	Toluene	Ethylbenzene	m.pXvlene	o-Xylene	Isopropylbenzene	n-Propvlbenzene	1.3.5-Trimethylbenzene	1.2.4-Trimethylbenzene	sec- Butylbenzene	tert-Butyl Benzene	4-Isopropyltoluene	n-Butylbenzene	Naphthalene

Uglkg = micrograms per klogram

(Lips = feet below ground surface

J = Analyte detected below quantation limits

J = Analyte detected below quantation limits

STARS = Spill technology and Remodation Series

(TASM 4448); Demotraniation of Soil Cloanup Debyes and addendurfl Adquast, 2001)

Underlined = Analyte that is detected above the PACAM Recommended Soil Cleanup Objectives.

= Analyte that is detected above the Part 375 (Unrestricted) Soil Cleanup Objectives.

Sample ID	BH43	BH44	BH45	BH46	BH47	BH48	BH50	BH51	BH52	BH53	BH54	BHSS	TAGM	Part 375
Date Sampled	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	Recommended Soil	(Unrestricted) Soil
Sample Depth	2-4 ft. bgs	2-4 ft. bgs 2-4 ft. bgs	4-6 ft. bgs	8-10 ft. bgs	2-4 ft. bgs	4-6 ft. bgs	4-6 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	4-6 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	Cleanup Objectives	Cleanup Objectives
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ng/kg	ng/kg
Benzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	64	<3,400	7,500	14,000	<1,800	80	09
Toluene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	<36	<3,400	<3.800	43,000	<1,800	1,500	700
Ethylbenzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	280	<3,400	32,000	52,000	5,100	5.500	1,000
m,p,-Xylene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	110	44,000	28,000	170,000	<1,800	1,200*	260*
o-Xylene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	45	<3,400	13,000	000'99	<1,800	1,200*	260*
Isopropylbenzene	<3.5	<370	7,100	<2,200	<3.6	<370	<330	200	<3,400	21,000	41,000	5,100	2,300	NF
n-Propylbenzene	<3.5	<370	2,600	<2,200	<3.6	<370	<330	200	<3,400	20,000	39,000	006'9	3,700	3,900
1,3,5-Trimethylbenzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	120	16,000	20,000	51,000	<1,800	3,300	8,400
1,2,4-Trimethylbenzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	130	43,000	000'02	150,000	<1,800	10,000	3,600
sec- Butylbenzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	<36	<3,400	<3,800	<9.200	<1,800	10.000	11,000
tert-Butyl Benzene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	<36	<3,400	<3,800	<9.200	<1,800	10.000	2,900
4-Isopropyltoluene	<3.5	<370	<4,700	<2,200	<3.6	<370	<330	<36	<3,400	<3,800	<9.200	<1,800	10.000	٦Ľ
n-Butylbenzene	<3.5	<370	000'9	<2,200	<3.6	<370	<330	99	<3,400	11,000	10,000	4,600	10,000	12,000
Naphthalene	18	<370	<4.700	<2.200	<3.6	<370	<330	92	<3.400	8.400	<9.200	<1.800	13.000	12.000

Part 375 (Unrestricted) Sc Cleanup Objectiv. ug/kg 00700 700 700 1,000 260 260 260 8,400 8,400 3,900 11,000 11,000 NL	TAGM Recommended Soil Cleanup Objectives ug/kg 80 1500 1500 5,500 1,200 1,200 2,300 2,300 10,000 10,000 10,000 10,000	BH66 7/27/10 6-8 ft. bgs 19/06 7/26 7/26 7/26 7/26 7/26 7/26 7/26 7/2	BH65 7/27/10 2-4 ft. bgs ug/kg c340 c340 c340 c340 c340 c340 c340 c340	25 List) BH64 7/27/12/10 4-8 ft. bgs ug/kg 10g/kg 449 449 449 449 449 449 449 449 449 44	48 ft. bgs 100 ft. bgs 48 ft. bgs 410 510 410 510 410 510 510 510 510 510 510 510 510 510 610 510 610 610 610 610 61	SW-346 Metho BH62 7/27/10 4-8 ft. bgs ug/kg 400 <400 <400 <400 <400 <400 970 1,100 <400 1,200 <400 <400 <400 370 1,200 <400 <400 <400 <400 <400 <400 <400 <	Adulta San Booo o o o o o o o o o o o o o o o o o	S by USI BH6 BH6	NOCs by USE BH6 BH6 BH6 TIZT/10 B-10 ft, bgs 0.2 ft, b 0.3/6 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.35 0.30 0.30	NOCs by USE	BH59 BH60 TiZ7110 TiZ7110 B-10 ft, bgs GS GS GS GS GS GS GS G	BH59 BH60 T72710 T7271
12,000	13,000	<36	<340	620	<410	<400	3.800	<35	<3,700	15,000	<40	Naphthalene
12,000	10,000	38	<340	<49	4,500	1,600	<3,300	<35	<3,700	<7,400	58	n-Butylbenzene
Z	10,000	<36	<340	<49	<410	<400	<3,300	<35	<3,700	<7.400	20	4-Isopropyltoluene
5,900	10,000	<36	<340	<49	<410	<400	<3,300	<35	<3,700	<7,400	<40	tert-Butyl Benzene
11,000	10,000	<36	<340	<49	2,100	1,200	<3,300	<35	<3,700	<7,400	45	sec- Butylbenzene
3,600	10,000	<36	<340	<49	570	<400	<3,300	<35	<3.700	38,000	220	1,2,4-Trimethylbenzene
8,400	3,300	36	<340	<49	610	<400	<3,300	<35	<3,700	170,000	130	1,3,5-Trimethylbenzene
3,900	3,700	<36	<340	<49	5,100	1,100	<3,300	<35	<3,700	<7,400	73	n-Propylbenzene
Z	2,300	<36	<340	<49	2,200	970	<3,300	35	<3,700	7,600	71	Isopropylbenzene
260*	1,200*	<36	<340	<49	530	<400	<3,300	<35	<3,700	13,000	49	o-Xylene
260*	1,200*	<36	<340	<49	710	<400	<3,300	<35	<3,700	12,000	09	m.pXylene
1,000	5,500	<36	<340	<49	<410	<400	<3,300	<35	<3,700	<7.400	<40	Ethylbenzene
200	1,500	<36	<340	<49	510	<400	<3,300	<35	<3,700	<7,400	<40	Toluene
09	80	<36	<340	<49	<410	<400	<3,300	<35	<3,700	<7,400	<40	Benzene
ng/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	Units
Cleanup Objectiv	Cleanup Objectives	6-8 ft. bgs	2-4 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	0-2 ft. bgs	8-10 ft. bgs	8- 10 ft. bgs	0-4 ft. bgs	8-10 ft. bgs	Sample Depth
(Unrestricted) S	Recommended Soil	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	Date Sampled
Part 375	TAGM	99HB	S9H8	BH64	BH63	BH62	BH61	BH60	BH59	BH58	BH56	Sample ID
				RS List)	N 8260 (STAF	W-846 Metho	VOCs by USEPA SW-846 Method 8260 (STARS List)	VOC				

					SVOCs by	V USEPA SW-	846 Method 8	SVOCs by USEPA SW-846 Method 8270 (STARS list)	st)				
Sample ID	BH1	BH10	BH11	BH13	BH15	BH18	BH19	BH21	BH23	BH24	BH25	TAGM	Part 375
Date Sampled	3/31/10	3/31/10	3/31/10	3/31/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	Recommended Soil	(Unrestricted) Soil
Sample Depth	8-10 ft. bgs	8-10 ft. bgs 0-2 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	0-2 ft. bgs	0-4 ft. bgs	2-4 ft. bgs	6-8 ft. bgs	6-8 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	Cleanup Objectives	Cleanup Objectives
Units	ug/kg	ug/kg	ug/kg	ng/kg	ng/kg	ng/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acenaphthene	<3,700	<40,000	<460	<4.900	<37,000	<41.000	<43,000	<450	<460	<42,000	<810	*000.0S	20,000
Fluorene	<3,700	<40.000	200 J	<4.900	<37,000	<41.000	8,000 J	<450	<460	8,000 J	<810	*000,02	30,000
Phenanthrene	<3,700	<40,000	630	<4.900	10,000 J	20,000 J	30,000 J	<450	870	40.000 J	5,000	.000.05	100,000
Anthracene	<3,700	<40,000	100 J	<4,900	<37,000	<41,000	f 000'6	<450	<460	10,000 J	<810	*000,03	100,000
Fluoanthene	<3,700	<40.000	730	<4,900	£,000 J	8,000 J	40,000 J	<450	100 J	40,000 J	890	\$0,000*	100,000
Pyrene	<3,700	<40.000	550	<4.900	6,000,5	8,000 J	30,000 J	<450	100 J	30,000 J	860	50,000*	100,000
Benzo(a)anthracene	<3,700	<40.000	300 1	<4.900	<37,000	5,000 J	20,000 J	<450	<460	20,000 J	300 7	224 or MDL	1,000
Chrysene	<3,700	<40.000	300 ك	<4,900	<37,000	C 000'9	20,000 J	<450	<460	10,000 J	300 1	400	1.000
Benzo(b)fluoranthene	<3.700	<40.000	300 J	<4,900	<37,000	<41,000	10,000 J	<450	<460	8,000 J	<810	220 or MDL	1,000
Benzo(k)fluoranthene	<3.700	4,000 J	300 J	<4,900	<37,000	7,000 J	10,000 J	<450	<460	10,000 J	<810	220 or MDL	800
Benzo(a)pyrene	800 J	4,000 J	200 J	<4,900	<37,000	5,000 J	20,000 J	1,900	<460	10,000 J	<810	61 or MDL	1,000
Indeno(1,2,3-cd)pyrene	<3,700	4,000 J	<460	<4,900	<37,000	<41,000	<43,000	<450	<460	<42,000	<810	3,200	500
Benzo(q,h,i)perylene	<3.700	5,000 J	<460	<4.900	<37,000	<41,000	10,000 J	<450	<460	<42,000	<810	\$0,000*	100,000

	Sample ID	BH26	BH27	BH28	BH29	BH30	BH31	BH34	BH37	BH38	BH40	BH41	BH42	TAGM	Part 375
Depth 8-10 ft, bgs 6-8 ft, bgs 8-10 ft, bgs	Date Sampled	4/1/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	Recommended Soil	(Unrestricted) Soil
ug/kg ug/kg <th< td=""><td>Sample Depth</td><td>8-10 ft. bqs</td><td></td><td>6-8 ft. bgs</td><td></td><td>8-12 ft. bgs</td><td>8-10 ft. bgs</td><td></td><td></td><td>6-8 ft. bgs</td><td>8-10 ft. bgs</td><td></td><td></td><td>Cleanup Objectives</td><td>Cleanup Objectives</td></th<>	Sample Depth	8-10 ft. bqs		6-8 ft. bgs		8-12 ft. bgs	8-10 ft. bgs			6-8 ft. bgs	8-10 ft. bgs			Cleanup Objectives	Cleanup Objectives
threne <390 <400 <3.900 <4300 <4300 <4300 <44.00 <40.000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.0000 <40.00000 <40.0000 <40.0000 <40.00000 <40.0000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.00000 <40.000000 <40.000000 <40.000000 <40.000000 <40.0000000 <40.000000000 <40.00000000 <40.0000000000	Units	uq/kg			ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
\$1 \$2<	Acenaphthene	<390	<400	<3,900	<390	<410	C 006	<380	<3,600	<4,700	<4,300	<41,000	200,000 J	50,000*	20,000
hrene 60 J <400 14,000 70 J 300 J 5400 60 J 1,000 J 600 J 10,000 J 30,000 J 1300,000 S0,000 50,000* sne <390 90 J <390 4400 2,000 J 70 J 3,600 J 10,000 J 50,000* 50,000* nee <390 400 <3,300 J <390 300 J 10,000 J 10,000 J 20,000 J 50,000* nee <390 <400 <3,300 J <390 300 J 10,000 J 20,000 J 60,000 J 50,000* 50,000* parthracene <390 <400 <3,300 J 100 J <4,300 J 30,000 J 220,000 50,000* 50,000* planthracene <390 <400 <3,300 J <4,300 J 30,000 J <4,300 J 30,000 J 220 or MDL 40,000 J plugarithmene <390 <400 <3,300 J <4,300 J 30,000 J 30,000 J 30,000 J 30,000 J 40,300 J 40,300 J 40,000 J	Fluorene	<390	<400	<3,900	<390	<410	800 J	<380	<3,600	<4,700	<4,300	L 000,7	200,000 J	\$0,000°	30,000
sine <390 90 J <3,900 <390 <410 2,000 J <4,700 <4,300 <4,300 56,000 O 50,000 J 44,300 J 50,000 J 44,300 J 50,000 J 44,300 J <t< td=""><td>Phenanthrene</td><td>60 J</td><td><400</td><td>14,000</td><td>70 J</td><td>300 J</td><td>9.400</td><td>60 J</td><td>1,000 J</td><td>f 009</td><td>10,000 J</td><td>30,000 J</td><td>1,900,000</td><td>\$0,000</td><td>100,000</td></t<>	Phenanthrene	60 J	<400	14,000	70 J	300 J	9.400	60 J	1,000 J	f 009	10,000 J	30,000 J	1,900,000	\$0,000	100,000
Particle Carolin Car	Anthracene	<390	f 06	<3.900	<390	<410	2,000 J	70.7	<3,600	<4,700	<4.300	20,000 J	000,099	*000.00	100,000
Color Colo	Fluoanthene	<390	40 J	<3.900	<390	300 J	12,000	<380	700 J	3,000 J	10,000 J	91,000	2,600,000	\$0,000	100,000
janthracene <390 <400 <3,900 <390 <400 <3,000 <390 <4,000 <224 or MDL e <390	Pyrene	<390	<400	3,000 J	<390	200 J	10,000	<380	1,000 J	2,000 J	10,000 J	84,000	2,200,000	\$0,000	100,000
range < 400 < 3.90 < 4.30 < 4.300 72,000 4.300 4.00 4.00 hene < 3.90	Benzo(a)anthracene	<390	<400	<3,900	<390	1001	5,400	<380	<3.600	3,000 J	<4,300	53,000	1,100,000	224 or MDL	1,000
hene <390 <400 <3.90 <390 <4.000 J <3.600 J <3.600 J <4.300 J <30.000 J <20.00 MDL hene <390	Chrysene	<390	<400	<3,900	<390	100 J	5,100	<380	<3.600	3,000 J	<4.300	72,000	1,300,000	400	1,000
hene <390 <400 <3.900 <390 3,000 J <380 <5,600 2,000 J <4,300 150,000 220 or MDL rego <4300	Benzo(b)fluoranthene	<390	<400	<3,900	<390	60 J	4,000 J	<380	<3,600	3,000 J	<4.300	98,000	970,000	220 or MDL	1,000
c390 c400 c3,900 c390 c3,600 c3,600 c3,600 c3,600 c3,000	Benzo(k)fluoranthene	<390	<400	<3,900	<390	60 J	3,000 J	<380	<3.600	2,000 J	<4,300	95,000	1,900,000	220 or MDL	800
Pyrene <390 <400 <3,900 <390 <4300 <410 3,000 J <380 <3,600 2,000 J <4,300 31,000 000 000 000 000 000 000 000 000 00	Benzo(a)pvrene	<390	<400	<3,900	<390	100 J	5,000	<380	<3,600	2,000 J	<4,300	120,000	1,800,000	61 or MDL	1,000
<390 <400 <390 <410 4,000 J <3,600 2,000 J <4,300 1,200,000 50,000* 50,000*	Indeno(1,2,3-cd)pyrene	<390	<400	<3,900	<390	<410	3,000 J	<380	<3,600	2,000 J	<4.300	81,000	1,000,000	3,200	200
	Benzo(a.h.i)pervlene	<390	<400	<3,900	<390	<410	4,000 J	<380	<3,600	2,000 J	<4,300	100,000	1,200,000	\$0.000°	100,000

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Sample ID	BH43	BH44	BH45	BH46	BH47	BH48	BH50	BH51	BH52	BH53	BH54	BH55	TAGM	Part 375
Date Sampled	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	7/26/10	Recommended Soil	(Unrestricted) Soil
Sample Depth	2-4 ft. bgs	2-4 ft. bgs 2-4 ft. bgs	4-6 ft. bgs	8-10 ft. bgs	2-4 ft. bgs	4-6 ft. bgs	4-6 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	4-6 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	Cleanup Objectives	Cleanup Objectives
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acenaphthene	<3.800	<4,100	<5.100	<480	<4,000	<4.100	<3,700	<400	<3,700	<420	<5,100	<3,900	*000.08	20,000
Fluorene	<3,800	<4.100	<5.100	<480	<4,000	<4,100	<3,700	<400	<3.700	<420	<5.100	<3,900	\$0,000°	30,000
Phenanthrene	<3.800	5,200	16,000	<480	<4,000	8,000	<3,700	<400	15,000	1,400	<5,100	5,900	\$0,000	100,000
Anthracene	<3.800	<4.100	<5.100	<480	<4,000	<4,100	<3,700	<400	<3,700	<420	<5,100	<3,900	\$0,000	100,000
Fluoanthene	<3.800	6,100	16,000	<480	5,100	7.400	<3,700	<400	17,000	<420	<5,100	<3,900	.00009	100,000
Pyrene	<3,800	5,900	15,000	<480	4,900	6,300	<3,700	<400	16,000	<420	<5,100	<3,900	50,000*	100,000
Benzo(a)anthracene	<3,800	<4,100	0000'9	<480	<4,000	<4.100	<3,700	<400	8,300	<420	<5,100	<3,900	224 or MDL	1,000
Chrysene	<3,800	<4,100	6,800	<480	<4,000	<4,100	<3,700	<400	7,300	<420	<5,100	<3,900	400	1,000
Benzo(b)fluoranthene	<3,800	<4,100	<5,100	<480	<4,000	<4,100	<3,700	<400	6,300	<420	<5,100	<3,900	220 or MDL	1,000
Benzo(k)fluoranthene	<3,800	<4,100	7,700	<480	<4,000	<4.100	<3,700	<400	6,200	<420	<5,100	<3,900	220 or MDL	800
Benzo(a)pyrene	<3,800	<4,100	5,700	<480	<4,000	<4,100	<3,700	<400	6,300	<420	<5,100	<3,900	61 or MDL	1,000
Indeno(1,2,3-cd)pyrene	<3,800	<4,100	<5,100	<480	<4,000	<4,100	<3,700	<400	<3,700	<420	<5,100	<3,900	3,200	200
Benzo(q,h,i)perylene	<3.800	<4.100	<5.100	<480	<4.000	<4.100	<3.700	<400	<3.700	<420	<5.100	<3.900	.000.09	100,000

				SVO	Cs by USEPA	SW-846 Meth	SVOCs by USEPA SW-846 Method 8270 (STARS List)	RS List)				
Sample ID	BH56	BH58	BH59	BH60	BH61	BH62	BH63	BH64	BH65	99HB	TAGM	Part 375
Date Sampled	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	7/27/10	Recommended Soil	(Unrestricted) Soil
Sample Depth	8-10 ft. bgs	0-4 ft. bgs	8- 10 ft. bgs	8-10 ft. bgs	0-2 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	2-4 ft. bgs	6-8 ft. bgs	Cleanup Objectives	Cleanup Objectives
Units	uq/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ng/kg	ng/kg	ng/kg	ug/kg	6y/6n	ug/kg
Acenaphthene	<440	<4,100	<410	<380	<3,700	<4,400	<4,500	<5,400	<3,800	<4,000	-000'09	20,000
Fluorene	<440	<4.100	<410	<380	<3,700	4,600	<4.500	<5,400	<3,800	<4,000	*000.08	30,000
Phenanthrene	<440	13,000	<410	<380	<3,700	13,000	16,000	6,800	<3,800	<4,000	*000,03	100,000
Anthracene	<440	<4.100	<410	<380	<3.700	<4,400	<4,500	<5,400	<3,800	<4,000	*000.08	100,000
Fluoanthene	<440	<4.100	<410	<380	<3,700	5,200	20,000	2,900	<3,800	<4,000	-000'09	100,000
Pvrene	<440	<4.100	<410	<380	<3,700	4,900	17,000	7.100	<3,800	<4,000	*000,03	100,000
Benzo(a)anthracene	<440	<4.100	<410	<380	<3.700	<4.400	000'6	<5,400	<3,800	<4,000	224 or MDL	1,000
Chrysene	<440	<4.100	<410	<380	<3,700	<4,400	8,500	<5,400	<3,800	<4,000	400	1,000
Benzo(b)fluoranthene	<440	<4.100	<410	<380	<3,700	<4,400	7,400	<5,400	<3,800	<4,000	220 or MDL	1,000
Benzo(k)fluoranthene	<440	<4.100	<410	<380	<3,700	<4,400	2,900	<5,400	<3,800	<4,000	220 or MDL	800
Benzo(a)pyrene	<440	<4.100	<410	<380	<3,700	<4,400	8,200	<5,400	<3,800	<4,000	61 or MDL	1,000
Indeno(1,2,3-cd)pyrene	<440	<4.100	<410	<380	<3,700	<4,400	<4,500	<5,400	<3,800	<4,000	3,200	500
Benzo(a.h.i)pervlene	<440	<4.100	<410	<380	<3.700	<4,400	<4,500	<5,400	<3,800	<4,000	-00005	100,000

Ug/kg = micrograms per kingram

(L. bgs = feet below ground surface

J = Analyte detected below ground surface

J = Analyte that is detected below ground surface

* = Total SVOCs must be \$500,000ug/kg, and Individual non-carenomy energy SVOCs must be \$50,000ug/kg

TAGM Recommended Soil Cleanup Detectives and Chemup Levels and addending August, 2001)

B = This analyte was also detected within the laboratory's method blank and may be the result of laboratory contamination.

Light Analyte that is detected above the TAGM Recommended Soil Cleanup Objectives.

Laborating = Analyte that is detected above the PAGM Recommended Soil Cleanup Objectives.

Mr. Eric Warren - Page 9 September 17, 2010

Conclusions

The purpose of this intrusive study was to better assess the environmental quality of on-site soils in accessible locations of the subject property proximate to the historic pump islands and the current and historic USTs. All test boring locations and soil sampling was completed at the direction of the New York State Department of Environmental Conservation (NYSDEC) and/or their contractors.

The following tables summarize the field observations and the laboratory results.

0I- ID	Depth of	Depth of		Highest	Petroleum-	Petroleum-	Free Product	Analytes Detected
Sample ID	Refusal	Groundwater		Reading	Type Odors	Type Staining	ft. bgs	Above Regulatory Criteria
DIM	ft. bgs	ft. bgs	ppm	ft. bgs	ft. bgs	ft. bgs	None	Yes
BH1	None	12	1,541	8-10	8-10	None		NA
BH2	None	None	1.7	0-4	None	None	None	
ВН3	None	None	0.4	0-2	None	None	None	NA
BH4	None	8	None	None	None	None	None	NA
BH5	None	None	0.6	2-4	None	None	None	NA
BH6	None	None	3.5	0-4	None	None	None	NA
BH7	8	4	2.9	2-4	None	None	None	NA
BH8	None	None	1.8	0-4	None	None	None	NA
BH9	None	None	3.2	0-2	None	None	None	NA
BH10	None	None	35.1	0-2	None	None	None	Yes
BH11	None	None	1,897	4-8	1-11	None	None	Yes
BH12	None	8	583	8-12	3-4	None	None	NA
BH13	None	None	13.2	4-8	None	None	None	No**
BH14	None	None	1.5	8-10	None	None	None	NA
BH15	None	None	52.3	0.4-2	0-5	None	None	No**
BH16	None	None	2.7	10-12	None	None	None	NA
BH17	None	None	1.8	2-4	None	None	None	NA
BH18	None	8	527	0.4-4	3-10	None	None	Yes
BH19	None	None	923	2-4	1-10	None	None	Yes
BH20	None	9	2.8	8-10	None	None	None	NA
BH21	None	None	21.3	6-8	None	None	None	Yes
BH22	None	None	6.8	6-8	None	None	None	NA
BH23	None	None	303	6-8	3-8	None	None	No**
BH24	None	None	616	2-4	3-5.5	None	None	No**
BH25	None	8	157	0.4-4	0-10	None	None	Yes
BH26	None	None	175	8-10	8-10	None	None	No
BH27	None	None	998	8-10	2-12	None	None	Yes
BH28	None	None	523	6-8	1-8	None	None	No**
BH29	None	8	>999	10-12	8-12	None	None	No**
BH30	None	11	26	8-12	None	None	None	Yes
BH31	None	8	663	8-10	8-11	None	None	Yes
BH32	None	9	6	4-8	None	None	None	NA
BH33	None	10	3	0.4-12	None	None	None	NA
BH34	None	8	22.5	6-8	None	None	None	No
BH35	None	None	5	4-8	None	None	None	NA
BH36	*	*	*	*	*	*	*	*
BH37	None	10	>999	0.4-8, 12-16	0.4-16	None	None	Yes
BH38	None	None	>999	4-8	6-8	6-8	None	Yes
BH39	None	None	8	0-4	None	None	None	No**
BH40	None	None	27	0-4	None	None	None	No**
BH41	None	None	392	4-8	4-8	4-8	None	Yes
BH42	None	None	10	2-4	None	None	None	Yes

NA = not analyzed

* = test boring was not completed due to proximity to natural gas utility lines

** = elevated laboratory method detection limit

Mr. Eric Warren – Page 10 September 17, 2010

Sample ID	Depth of Refusal	Depth of Groundwater		lighest Reading	Petroleum- Type Odors	Petroleum- Type Staining	Free Product	Analytes Detected
	ft. bgs	ft. bgs	ppm	ft. bgs	ft. bgs	ft. bgs	ft. bgs	Above Regulatory Criteria
BH43	None	None	6	2-4	None	None	None	No**
BH44	None	None	40	2-4	None	None	None	No**
BH45	None	None	810	4-6	4-7	None	None	Yes
BH46	None	None	172	8-10	None	None	None	No**
BH47	None	None	6	2-4	None	None	None	No**
BH48	None	None	2	0-8, 10-12	None	None	None	No**
BH49	4	None	1	0-4	None	None	None	NA
BH50	None	None	1	0-6	None	None	None	No**
BH51	None	None	339	2-4	2-8	None	None	No
BH52	None	None	>999	0-4	0-8	None	None	Yes
BH53	None	None	>999	0-8	2-10	2-8	None	Yes
BH54	None	None	>999	2-8	2-8	None	None	Yes
BH55	None	None	668	4-8	4-10	None	None	No**
BH56	None	12	>999	8-10	8-12	None	None	No
BH57	NR	NR	NR	NR	NR	NR	NR	NR
BH58	None	8	>999	0-4	1-10	None	None	Yes
BH59	None	None	448	8-10	1-10	None	None	No**
BH60	None	None	336	8-10	8-12	None	None	No
BH61	2	None	672	0-2	0.4-2	None	None	No**
BH62	None	None	>999	0-2, 4-8	4-8	4-8	None	No**
BH63	None	None	>999	4-8	4-8	4-8	None	Yes
BH64	None	None	9	0-2	None	None	None	No**
BH65	7	None	25	2-4	None	None	None	No**
BH66	None	None	2	4-12	None	None	None	No**

NA = not analyzed NR = no recovery

Based on the analytical results, analytes were detected at concentrations above TAGM Recommended Soil Cleanup Objectives and Part 375 (Unrestricted) Soil Cleanup Objectives in soil samples collected from west, south and east of the subject structure. Analytes were not detected at concentrations above TAGM Recommended Soil Cleanup Objectives or Part 375 (Unrestricted) Soil Cleanup Objectives in soil samples collected from test borings BH15, BH23, BH29, BH40, BH46, BH55, BH59, BH61 and BH62. Based on the field observations (i.e. elevated PID readings, odors, staining) analytes may be present in soil samples collected from those test borings; however, were not detected due to elevated laboratory method detection limits.

Recommendations

Contaminated soil and groundwater (if any) should be remediated in accordance with the requirements of the NYSDEC. Similarly, non compliant UST systems should be properly abandoned (i.e., closed-in-place or excavated and removed).

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Adam Zebrowski Environmental Analyst Reviewed by:

Douglas B. Reid

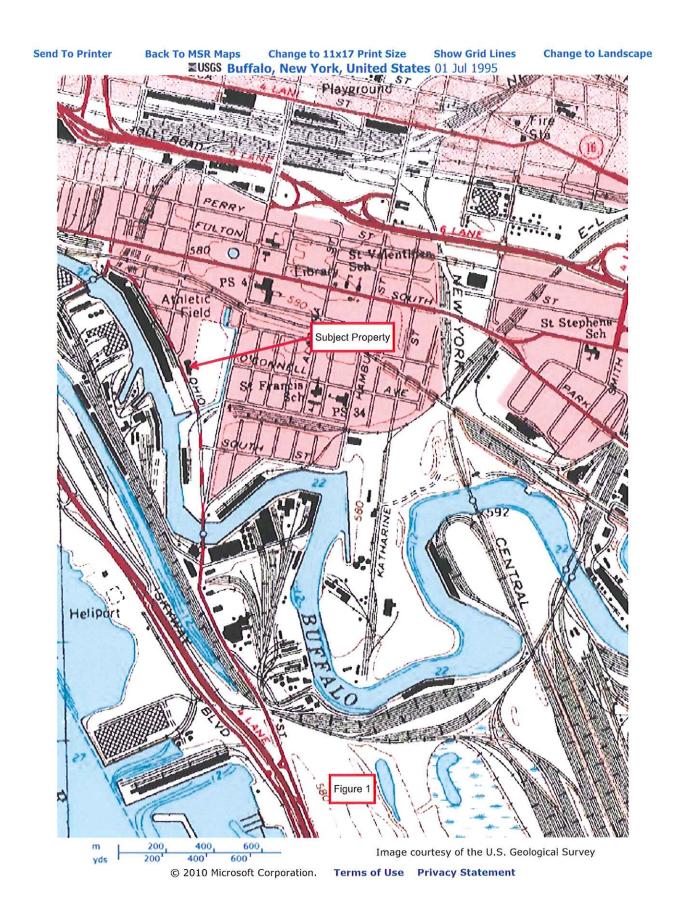
Sr. VP, Environmental Services Sr. Environmental Scientist

^{* =} test boring was not completed due to proximity to natural gas utility lines

** = elevated laboratory method detection limit



MSRMaps: Print Page 1 of 1







LCSINC.

FIGURE 2 - SITE INVESTIGATION PLAN

300 OHIO STREET BUFFALO, NEW YORK Drawn by: AKZ

Checked by: DBR

Not to Scale

LCS Project # 10B667.22



CORPORATE OFFICES 40 La Riviere Drive, Sutte 120 Buffalo, New York 14202

> TEL: 800.474.6802 716.845.6145 Fax: 716.845.6164

Offices

Buffalo New York

May 7, 2010

Mr. Eric Warren

Russo Development, Inc. 535 East Main Street

Springville, New York 14141

Syracuse New York

ALBANY

NEW YORK

ROCHESTER

NEW YORK

Re: Pha

Phase II Environmental Site Assessment

Limited and Focused Subsurface Soil & Investigation

300 Ohio Street Buffalo, New York

LCS Project #10B667.22

NYSDEC Spill Number 0904777

Dear Mr. Warren:

New York City New York

Background

At your request, Lender Consulting Services, Inc. (LCS) documented site investigation activities and prepared a summary report to present the results of the limited and focused subsurface investigation, completed at the above-referenced subject property (See Figure 1). All test boring locations and soil sampling was completed at the direction of the New York State Department of Environmental Conservation (NYSDEC) and/or their contractors.

Cottage New York

VALLEY

HARRISBURG Site Description

The subject property was historically utilized as a gasoline and diesel filling station and petroleum distribution operation. Multiple gasoline, diesel, #2 heating oil and kerosene underground storage tanks (USTs) are currently or were historically located on the subjected property. Five inoperative pump islands are currently located west and south of the subject structure. The topography of the site is generally level at grade. The Buffalo River is located approximately 250 feet from the subject property; although, does not border the subject property. The subject property is located in a primarily industrial setting.

PITTSBURGH PENNSYLVANIA

PENNSYLVANIA

ALTOONA PENNSYLVANIA

Introduction

The purpose of this intrusive study was to better assess the environmental quality of on-site soils in accessible locations of the subject property. Soil samples were collected for stratigraphic characterization and field monitoring. Select soil samples were submitted for laboratory analysis to supplement field observations.

Baltimore Maryland

The following is a summary of the methods and results of the investigation.

Salisbury Maryland

CLEVELAND Ohio

Mr. Eric Warren – Page 2 May 7, 2010

Methods of Investigation

Soil

Soil samples were collected on March 31 through April 2, 2010, with a track-mounted percussion and hydraulically driven drive system equipped with an approximate 2-inch diameter, approximate 48-inch long macro-core sampler. Soil samples were collected within each borehole continuously from the ground surface until a depth of between approximately eight and 16 feet below the ground surface (ft. bgs). Any downhole equipment was decontaminated with an Alconox and tap water wash and tap water rinse between boreholes. The cutting shoes were decontaminated in a similar manner between collection of each sample.

The physical characteristics of all soil samples were classified using the Unified Soil Classification System (USCS) (Visual-Manual Method) and placed in separate sealable containers to allow any vapors to accumulate in the headspace. After several minutes, the container was opened slightly and total volatile organic compound (VOC) concentrations in air within the sample container were measured using a photoionization detector (PID). (The PID is designed to detect VOCs, such as those associated with petroleum.) Based on the field observations and/or screening results, soils were selected for analysis (see below).

Sample Analysis

Following labeling of the laboratory-supplied sample containers, selected samples were placed on ice. The samples were then submitted, under standard chain-of-custody, to a New York State Department of Health (NYSDOH) approved laboratory for analysis in accordance with the United States Environmental Protection agency (USEPA) SW-846 Methods as summarized below.

The following table summarizes the specific analytical testing performed and their respective sample locations.

Sample Location	Analytical Testing Performed
BH1 (8-10 ft. bgs)	
BH10 (0-2 ft. bgs)	
BH11 (4-8 ft. bgs)	
BH13 (4-8 ft. bgs)	
BH15 (0-2 ft. bgs)	
BH18 (0-4 ft. bgs)	
BH19 (2-4 ft. bgs)	
BH21 (6-8 ft. bgs)	
BH23 (6-8 ft. bgs)	
BH24 (2-4 ft. bgs)	
BH25 (0-4 ft. bgs)	- Berkelijn vijes - Sifferskinsk kielskings (and Johan Sintensystette) - dissistensystettenses gungst dan
BH26 (8-10 ft. bgs)	VOCs (STARS List), SVOCs (STARS List)
BH27 (8-10 ft. bgs)	
BH28 (6-8 ft. bgs)	a contract of the contract of
BH29 (10-12 ft. bgs)	
BH30 (8-12 ft. bgs)	
BH31 (8-10 ft. bgs)	
BH34 (6-8 ft. bgs)	
BH37 (0-4 ft. bgs)	
BH38 (6-8 ft. bgs)	
BH40 (8-10 ft. bgs)	
BH41 (4-8 ft. bgs)	
BH42 (2-4 ft. bgs)	

ft. bgs = feet below ground surface

VOCs (STARS List+ 10 TICs) = Spill Technology and Remediation Series volatile organic compounds + 10 Tentatively Identified Compounds via USEPA Test Method 8260 SVOCs (STARS List + 20 TICs) = Spill Technology and Remediation Series semi-volatile organic compounds + 20 Tentatively Identified Compound via USEPA Test Method 8270

Mr. Eric Warren – Page 3 May 7, 2010

Results of Field Investigation

Forty-one boreholes (BH1 through BH35 and BH37 through BH42) were completed in accessible areas of the subject property proximate to the environmental concerns. Test boring BH36 was not completed due to its proximity to two natural gas utility lines. (See Figure 2.) A total of 197 soil samples were collected for geologic description. Fill material consisting of asphalt, brick, gravel, clay, sand and silt was noted within all of the test borings with the exception of BH26, BH31 and BH40 through BH42 to a maximum depth of approximately eight ft. bgs. Generally, the native soils encountered consisted of varying mixtures of gravel, sand, silt and clay to the bottom of the test borings. Apparent groundwater was encountered in BH1, BH4, BH7, BH12, BH18, BH20, BH25, BH29 through BH34 and BH37 between approximately four and 12 ft. bgs. Equipment refusal was encountered within test boring BH7 at approximately eight ft. bgs. The cause of the equipment refusal could not be determined.

PID measurements were above total ambient air background VOC measurements (i.e., 0.0 parts per million, ppm) in 184 of the 197 soil samples collected. These elevated concentrations ranged from 0.1 parts per million (ppm) to 1,897 ppm (BH11, ~2-4 ft. bgs). Petroleum-type odors were detected in soil samples collected from test borings BH1, BH11, BH12, BH15, BH18, BH19, BH23 through BH29, BH31, BH37, BH38 and BH41 between approximately the ground surface and 16 ft. bgs. Petroleum-type staining was observed in soil samples collected from test borings BH38 and BH41 between approximately four and eight ft. bgs. In LCS' experience, the PID measurements and field observations (i.e., odors/staining) suggest VOC impact located west, south and east of the subject structure.

Refer to the attached subsurface logs for soil classification for each sample interval, field observations and PID measurements.

Investigation Analytical Results

The soil samples collected and analyzed detected the following analytes. The respective concentrations as well as applicable regulatory guidance values are also listed for comparison. Analytes not detected are not shown.

				VOCS	by USEPA SW	VOCs by USEPA SW-846 Method 8260 (STARS List)	3260 (STARS)	List)				
Sample ID	BH1	BH10	BH11	BH13	BH15	BH18	BH19	BH21	BH23	BH24	BH25	TAGM
Date Sampled	3/31/10	3/31/10	3/31/10	3/31/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	Recommended Soil
Sample Depth	8-10 ft. bgs	0-2 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	0-2 ft. bgs	0-4 ft. bgs	2-4 ft. bgs	6-8 ft. bgs	6-8 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	Cleanup Objectives
Units	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ng/kg	ug/kg	ug/kg	ug/kg
Benzene	434	101	6 006	<22	<1,700	750	2,000	1,200	<41,000	<1,900	<740	80
Toluene	<34	19	<2,100	<22	<1,700	400 J	L 007	<410	<41,000	<1,900	<740	1,500
Ethylbenzene	<34	140	2,000 J	22	<1,700	096	5,300	2,200	<41,000	<1,900	<740	5,500
m.pXvlene	<34	89	4,900	110	<1,700	1,500	3,200	1,900	<41,000	<1,900	<740	1,200*
o-Xvlene	<34	7.3	1,000 J	27	<1,700	400 J	<780	200 J	<41,000	<1,900	<740	1,200*
Isopropylbenzene	<34	92	<2,100	<22	<1,700	4,900	3,000	400 J	<41,000	<1,900	<740	2,300
n-Propylbenzene	<34	230	2,000 J	22	<1,700	3,300	2,400	300 J	<41,000	2,000 J	400 J	3,700
1,3,5-Trimethylbenzene	<34	360	3,500	69	<1,700	2,900	3,300	200 J	<41,000	900 J	<740	3,300
1.2.4-Trimethylbenzene	<34	450	12,000	240	<1,700	2,600	1,200	630	<41,000	1,000 J	700 J	10,000
sec-Butylbenzene	<34	20	<2.100	<22	<1,700	f 009	700 J	<410	<41,000	<1,900	<740	10,000
4-Isopropyltoluene	<34	51	<2,100	<22	<1,700	f 009	500 J	<410	<41,000	<1,900	<740	10,000
n-Butylbenzene	×34	130	1,000 J	<22	<1,700	1,500	1,400	<410	<41,000	1,000 J	<740	10,000
Naphthalene	<34	210	2,900	36	2,300	2,800	3,300	580	<41,000	2,100	920	13,000

Sample ID	BH26	BH27	BH28	BH29	BH30	BH31	BH34	BH37	BH38	BH40	BH41	BH42	TAGM
Date Sampled	4/1/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	Recommended Soil
Sample Depth	8-10 ft. bqs	8-10 ft. bgs 8-10 ft. bgs	6-8 ft. bqs	10-12 ft. bgs	8-12 ft. bgs	8-10 ft. bgs	6-8 ft. bgs	0-4 ft. bgs	6-8 ft. bgs	8-10 ft. bgs	4-8 ft. bgs	2-4 ft. bgs	Cleanup Objectives
Units	ua/ka	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ng/kg	ng/kg	ng/kg	ug/kg	ug/kg
Benzene	<710	<1,800	<1,800	<36,000	<750	<770	<700	<1,700	<860	<780	<1,900	<390	80
Toluene	<710	<1,800	<1,800	<36,000	<750	<770	<700	<1,700	<860	<780	<1,900	<390	1,500
Ethylbenzene	<710	2.000 J	<1.800	<36,000	<750	<770	<700	3,700	<860	<780	<1,900	<390	5,500
m.pXvlene	<710	2.400	<1,800	<36,000	<750	1,300	<700	4,700	<860	<780	<1,900	<390	1,200*
o-Xvlene	<710	<1.800	<1.800	<36,000	<750	<770	<700	<1,700	098>	<780	<1,900	<390	1,200*
Isopropylbenzene	<710	<1,800	<1,800	<36,000	<750	<770	<700	1,000 J	<860	<780	<1,900	<390	2,300
n-Propylbenzene	<710	2,000 J	1,000 J	<36,000	<750	<770	400 J	1,800	<860	<780	1,000 J	<390	3,700
1.3.5-Trimethylbenzene	<710	2.400	<1,800	<36,000	<750	400 J	<700	3,000	<860	<780	<1,900	<390	3,300
1.2.4-Trimethylbenzene	<710	4,600	<1,800	<36,000	<750	1,200	<700	13,000	098>	<780	1,900	<390	10,000
tert-Butyl Benzene	<710	<1.800	<1.800	<36,000	<750	<770	<700	<1,700	<860	<780	<1,900	<390	10,000
4-Isopropyltoluene	<710	<1,800	<1,800	<36,000	<750	<770	<700	<1,700	<860	<780	<1,900	<390	10,000
n-Butylbenzene	<710	<1,800	<1,800	<36,000	<750	<770	<700	<1,700	<860	<780	<1,900	<390	10,000
Naphthalene	<710	1,000 J	3,100	<36,000	<750	<770	<700	4,500	098>	<780	<1,900	1,800	13,000
						The second secon	and bilanesses						

				SVOCs	by USEPA SV	V-846 Method	SVOCs by USEPA SW-846 Method 8270 (STARS list)	list)				
Sample ID	BH1	BH10	BH11	BH13	BH15	BH18	BH19	BH21	BH23	BH24	BH25	TAGM
Date Sampled	3/31/10	3/31/10	3/31/10	3/31/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	4/1/10	Recommended Soil
Sample Depth	8-10 ft. bgs	0-2 ft. bgs	4-8 ft. bgs	4-8 ft. bgs	0-2 ft. bgs	0-4 ft. bgs	2-4 ft. bgs	6-8 ft. bgs	6-8 ft. bgs	2-4 ft. bgs	0-4 ft. bgs	Cleanup Objectives
Units	uq/kg	uq/kq	ng/kg	ug/kg	ug/kg	ng/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acenaphthene	<3,700	<40.000	<460	<4,900	<37,000	<41,000	<43,000	<450	<460	<42,000	<810	\$0,000
Fluorene	<3,700	<40,000	200 J	<4,900	<37,000	<41,000	8,000 J	<450	<460	8,000 J	<810	*000,00
Phenanthrene	<3,700	<40,000	630	<4,900	10,000 J	20,000 J	30,000 J	<450	870	40,000 J	5,000	50,000*
Anthracene	<3,700	<40,000	1001	<4,900	<37,000	<41,000	f 000'6	<450	<460	10,000 J	<810	\$0,000°
Fluoanthene	<3,700	<40,000	730	<4,900	5,000 J	8,000 J	40,000 J	<450	100 J	40,000 J	890	\$0,000*
Pyrene	<3,700	<40,000	550	<4,900	C 000,9	8,000 J	30,000 J	<450	100 J	30,000 J	860	\$0,000°
Benzo(a)anthracene	<3,700	<40,000	300 J	<4,900	<37,000	5,000 J	20,000 J	<450	<460	20,000 J	300 J	224 or MDL
Chrysene	<3,700	<40,000	300 1	<4,900	<37,000	6,000 J	20,000 J	<450	<460	10,000 J	300 J	400
Benzo(b)fluoranthene	<3,700	<40,000	300 J	<4,900	<37,000	<41,000	10,000 J	<450	<460	8,000 J	<810	220 or MDL
Benzo(k)fluoranthene	<3,700	4,000 J	300 J	<4,900	<37,000	7,000 J	10,000 J	<450	<460	10,000 J	<810	220 or MDL
Benzo(a)pyrene	F 008	4,000 J	200 J	<4,900	<37,000	5,000 J	20,000 J	1,900	<460	10.000 J	<810	61 or MDL
Indeno(1,2,3-cd)pyrene	<3,700	4.000 J	<460	<4.900	<37,000	<41,000	<43,000	<450	<460	<42,000	<810	3,200
Benzo(g,h,i)perylene	<3,700	5,000 J	<460	<4,900	<37,000	<41,000	10,000 J	<450	<460	<42,000	<810	*000,03

				S	SVOCs by USEPA SW-846 Method 8270 (STARS list)	A SW-846 Me	thod 8270 (ST	(ARS list)					
Sample ID	BH26	BH27	BH28	BH29	BH30	BH31	BH34	BH37	BH38	BH40	BH41	BH42	TAGM
Date Sampled	4/1/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	4/2/10	Recommended Soil
Sample Depth	8-10 ft. bas	8-10 ft. bas	6-8 ft. bqs	10-12 ft. bqs	8-12 ft. bgs	8-10 ft. bgs	6-8 ft. bgs	0-4 ft. bgs	6-8 ft. bgs	8-10 ft. bgs	4-8 ft. bgs	2-4 ft. bgs	Cleanup Objectives
Units	ua/ka	_	ug/kg	ug/kg	uq/kg	ug/kg	ug/kg	ug/kg	ng/kg	ug/kg	ug/kg	ug/kg	ug/kg
Acenaphthene	<390	<400	<3.900	<390	<410	f 006	<380	<3,600	<4,700	<4,300	<41,000	200,000 J	\$0,000*
Fliorene	<390	<400	<3.900	<390	<410	800 J	<380	<3,600	<4,700	<4,300	L 000,7	200,000 J	50,000*
Phenanthrene	F 09	<400	14,000	70.7	300 1	9,400	f 09	1,000 J	600 J	10,000 J	30,000 J	1,900,000	*000,03
Anthracene	<390	1.06	<3.900	<390	<410	2.000 J	L 07	<3,600	<4.700	<4,300	20,000 J	000'099	\$0,000
Fluoanthene	<390	40.7	<3,900	<390	300 J	12,000	<380	700 J	3,000 J	10,000 J	91,000	2,600,000	\$0,000
Pyrene	<390	<400	3,000 J	<390	200 J	10,000	<380	1,000 J	2,000 J	10,000 J	84,000	2,200,000	\$0,000*
Renzo(a)anthracene	<390	<400	<3.900	<390	100 J	5,400	<380	<3,600	3,000 J	<4,300	53,000	1,100,000	224 or MDL
Chosene	<390	<400	<3,900	<390	100 J	5,100	<380	<3,600	3,000 J	<4,300	72,000	1,300,000	400
Benzo(b)fluoranthene	<390	<400	<3,900	<390	f 06	4,000 J	<380	<3,600	3,000 J	<4,300	98,000	970,000	220 or MDL
Benzo(k)fluoranthene	<390	<400	<3,900	<390	90 J	3,000 J	<380	<3,600	2,000 J	<4,300	95,000	1,900,000	220 or MDL
Benzo(a)ovrene	<390	<400	<3,900	<390	1001	5,000	<380	<3,600	2.000 J	<4,300	120,000	1,800.000	61 or MDL
Indeno(1.2.3-cd)pyrene	<390	<400	<3,900	<390	<410	3,000 J	<380	<3,600	2,000 J	<4.300	81,000	1,000,000	3,200
Renzo(a h i)nerylene	<390	<400	<3,900	<390	<410	4,000 J	<380	<3.600	2,000 J	<4,300	100,000	1,200,000	\$0,000

Lights = micrograms per kilogram

1. Lights = feet below ground surface

J = Analyse detected below quantitation limits

STARS = Spill Technology and Remediation Series

* = Total SVOCs must be \$50,000ug/kg, and Individual non-accuracy gene SVOCs must be \$50,000ug/kg, and Individual non-accuracy gene SVOCs must be \$50,000ug/kg, and Individual non-accuracy gene SVOCs must be \$50,000ug/kg.

TAGM Recommended Soil Cleanup Objectives as Division Technola and Administrative Guadance Memorandum

(TAGM 404s); Determination of Soil Cleanup Objectives and Cleanup Levels and addividual, 2001)

B = This analyte was also detected within he laboratory smethod blank and may be the result of laboratory contamination.

= Analyte that is detected above the TAGM Recommended Soil Cleanup Objective.

Mr. Eric Warren – Page 6 May 6, 2010

Conclusions

The purpose of this intrusive study was to better assess the environmental quality of on-site soils in accessible locations of the subject property proximate to the historic pump islands and the current and historic USTs. All test boring locations and soil sampling was completed at the direction of the New York State Department of Environmental Conservation (NYSDEC) and/or their contractors.

The following table summarizes the field observations and the laboratory results.

Sample ID	Depth of Refusal	Depth of Groundwater		Highest Reading	Petroleum- Type Odors	Petroleum- Type Staining	Free Product	Analytes Detected
Sample ID	ft. bgs	ft. bgs	ppm	ft. bgs	ft. bgs	ft, bgs	ft. bgs	Above Regulatory Criteria
BH1	None	12	1.541	8-10	8-10	None	None	Yes
BH2	None	None	1.7	0-4	None	None	None	NA NA
BH3	None	None	0.4	0-2	None	None	None	NA NA
BH4	None	8	None	None	None	None	None	NA NA
BH5	None	None	0.6	2-4	None	None	None	NA NA
BH6	None	None	3.5	0-4	None	None	None	NA NA
BH7	8	4	2.9	2-4	None	None	None	NA NA
BH8	None	None	1.8	0-4	None	None	None	NA NA
BH9	None	None	3.2	0-2	None	None	None	NA NA
BH10	None	None	35.1	0-2	None	None	None	Yes
BH11	None	None	1,897	4-8	1-11	None	None	Yes
BH12	None	8	583	8-12	3-4	None	None	NA NA
BH13	None	None	13.2	4-8	None	None	None	No**
BH14	None	None	1.5	8-10	None	None	None	NA
BH15	None	None	52.3	0.4-2	0-5	None	None	No**
BH16	None	None	2.7	10-12	None	None	None	NA
BH17	None	None	1.8	2-4	None	None	None	NA NA
BH18	None	8	527	0.4-4	3-10	None	None	Yes
BH19	None	None	923	2-4	1-10	None	None	Yes
BH20	None	9	2.8	8-10	None	None	None	NA
BH21	None	None	21.3	6-8	None	None	None	Yes
BH22	None	None	6.8	6-8	None	None	None	NA
BH23	None	None	303	6-8	3-8	None	None	NA
BH24	None	None	616	2-4	3-5.5	None	None	No**
BH25	None	8	157	0.4-4	0-10	None	None	Yes
BH26	None	None	175	8-10	8-10	None	None	No
BH27	None	None	998	8-10	2-12	None	None	Yes
BH28	None	None	523	6-8	1-8	None	None	No**
BH29	None	8	>999	10-12	8-12	None	None	No**
BH30	None	11	26	8-12	None	None	None	Yes
BH31	None	8	663	8-10	8-11	None	None	Yes
BH32	None	9	6	4-8	None	None	None	NA
BH33	None	10	3	0.4-12	None	None	None	NA NA
BH34	None	8	22.5	6-8	None	None	None	No
BH35	None	None	5	4-8	None	None	None	NA NA
BH36	*	*	*	*	*	None	*	*
BH37	None	10	>999	0.4-8, 12-16	0.4-16	None	None	Yes
BH38	None	None	>999	4-8	6-8	6-8	None	Yes
BH39	None	None	8	0-4	None	None	None	No**
BH40	None	None	27	0-4	None	None	None	No**
BH41	None	None	392	4-8	4-8	4-8	None	Yes
BH42	None	None	10	2-4	None	None	None	Yes

NA = not analyzed

^{* =} test boring was not completed due to proximity to natural gas utility lines

** = elevated laboratory method detection limit

Mr. Eric Warren – Page 7 May 6, 2010

Based on the analytical results, analytes were detected at concentrations above TAGM Recommended Soil Cleanup Objectives in soil samples collected from west, south and east of the subject structure. Analytes were not detected at concentrations above TAGM Recommended Soil Cleanup Objectives in soil samples collected from test borings BH15, BH23, BH28, BH29 and BH40. Based on the field observations (i.e. elevated PID readings, odors, staining) analytes may be present in soil samples collected from those test borings; however, were not detected due to elevated laboratory method detection limits.

Recommendations

Contaminated soil and groundwater (if any) should be remediated in accordance with the requirements of the NYSDEC. Similarly, non compliant UST systems should be properly abandoned (i.e., closed-in-place or excavated and removed).

Thank you for allowing LCS to service your environmental needs. If you have any questions or require additional information, please do not hesitate to call our office.

Sincerely,

Adam Zebrowski

Environmental Analyst

Reviewed by:

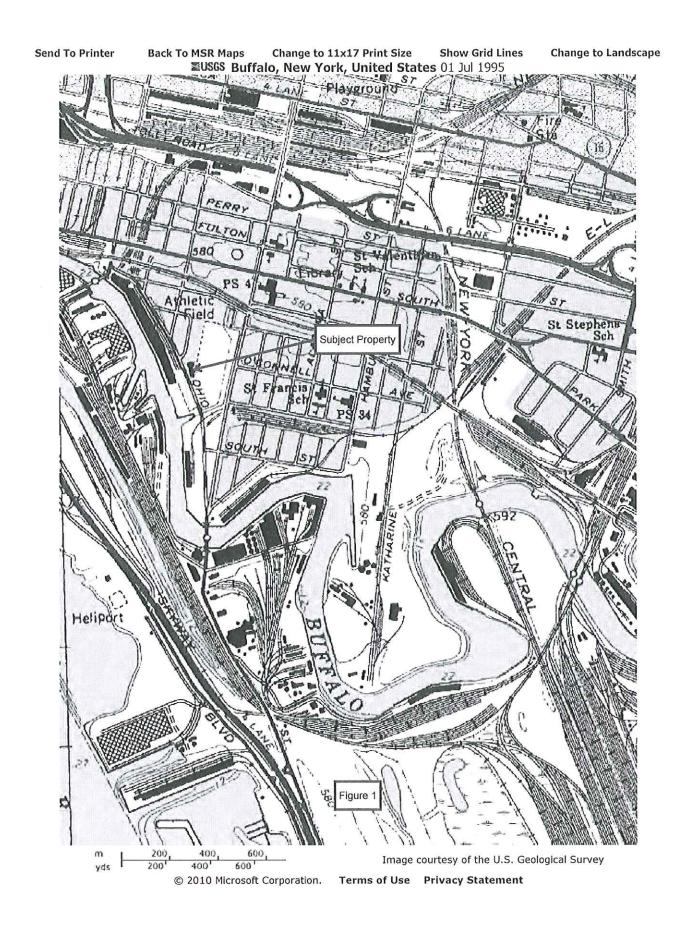
Douglas B. Keid

Sr. VP, Environmental Services

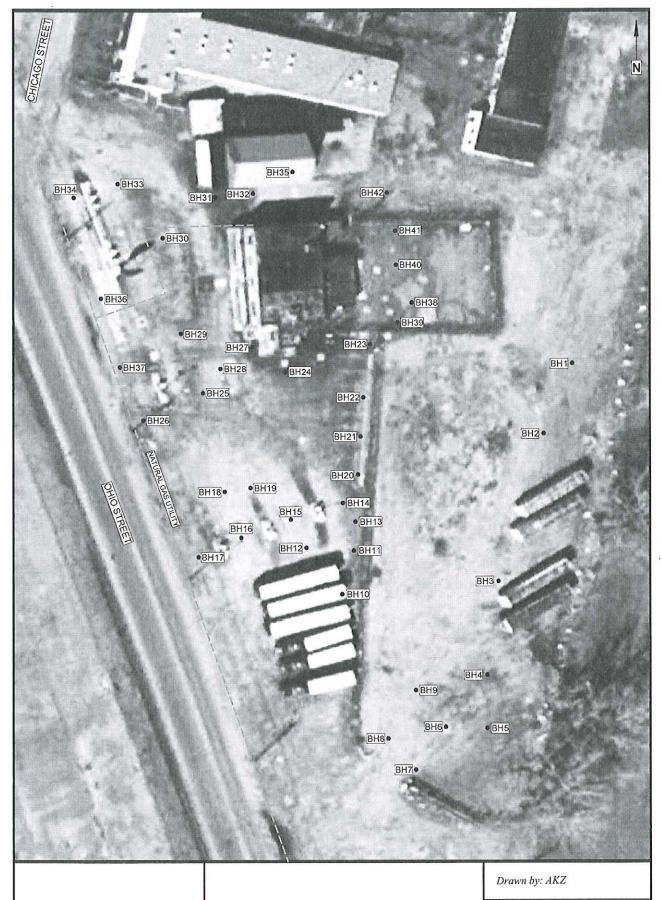
Sr. Environmental Scientist

SITE LOCATION MAP

Page 1 of 1 MSRMaps: Print







LCSINC.

FIGURE 2 - SITE INVESTIGATION PLAN

300 OHIO STREET BUFFALO, NEW YORK Checked by: DBR

Not to Scale

LCS Project # 10B667.22



	LC	CS Ir	ıc.			SU	BSUR	FACE LC)G
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22
CLIENT:				Russo Develop					
DATE ST	ΓARTED:	3/31/	/2010	_ DATE COM	MPLETE	D:3/	31/2010	RECORDED BY:	AZ
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:	~12	2 ft. bgs	AFTER COM	IPLETION:	NA
WEATH	ER:	15°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	elopment, Inc.
DRILL S	ZE/TYPE:		Macr	o-core	SAM	PLE HAMME	R: WEIGHT	NA FALL	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-V	
1	0.7	0-2	U	-	-	20	0-8ft: Blackish	-gray sandy gravelly silt (lov	v plasticity, moist)
2	0.1	2-4	U			20	8-10ft: Brown	clay (high plasticity, soft, mo	pist)
3	1.6	4-8	U	-	-	15	10-12ft: Brown	nish-gray sandy silt (low plas	sticity, moist)
4	1,541	8-10	U	-	:=0:	24	12-14ft: Brown	nish-gray silty sand (fine, de	nse, wet)
5	51.1	10-12	U		:=:	24	14-16ft: Brown	n silty clay (medium plasticit	y, stiff, moist)
6	1.9	12-14	U	16	-	24			
7	0.6	14-16	U		-	24			
]		
]		
							_		
							-		
							-		

ft. bgs = feet below ground surface

Fill to ~8 ft. bgs

Suspect petroleum-type odors @ 8-10 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

3	LC	CS Ir	1c.			SU	BSUR	FACE LO	G
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22
CLIENT:	1		1	Russo Develop	ment, In	IC.		BORING/WELL No.	BH2
DATE ST	TARTED:	3/31	/2010	DATE COM	//PLETE	D:3/	31/2010	RECORDED BY:	AZ
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:		N/A	AFTER COM	MPLETION:	NA
WEATH	ER:	45°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	lopment, Inc.
DRILL S	ZE/TYPE:	,	Macr	o-core	_ SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-Vi	U.S
1	1.7	0-4	U		-	20	0-0.4ft: Brown	ish-gray gravel (coarse, angu	ular, packed, moist)
2	0.7	4-6	U	-	:=::	18	0.4-4ft: Brown	ish-black gravelly sandy silt ((low plasticity, moist)
3	0.3	6-8	U		÷	18	4-6ft: Black sa	andy silt (low plasticity, moist)).
4	0.3	8-10	U	-	-	15	6-10ft: Brown	silty clay (medium plasticity,	soft, moist)
5	0.0	10-12	U	-	-	15	10-12ft: Brow	nish-gray sandy silt (low plas	ticity, moist)
							1		
]		
]		
							-		
]		
							1		
							-		
							-		
							-		

Fill to ~6 ft. bgs

ft. bgs = feet below ground surface

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

	LC	CS Ir	ıc.			SU	BSUR	FACE LC)G
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yorl	k	PROJECT No.	10B667.22
CLIENT:			ı	Russo Develop	ment, In	C.		BORING/WELL No.	вн3
DATE ST	TARTED:	3/31/	/2010	_ DATE CON	IPLETE	D:3/	31/2010	RECORDED BY:	AZ
GROUNI	DWATER D	EPTH WH	HILE DR	ILLING:		NA	AFTER COM	IPLETION:	NA
WEATH	ER:4	45°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	elopment, Inc.
DRILL S	ZE/TYPE:		Macr	o-core	SAM	PLE HAMMER	R: WEIGHT	NAFALL	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-\	
1	0.4	0-2	U		-	20	0-6ft: Blackish	ı-gray gravely silt (low plasti	city, moist)
2	0.1	2-4	U	-	-	20	6-9ft: Brown c	lay (medium plasticity, soft,	moist)
3	0.0	4-6	U	-1	9 2 8	18	9-12ft; Browni	sh-orange silty clay (low pla	sticity, stiff, moist)
4	0.0	6-8	U	-	-	18			9
5	0.0	8-10	U	(-)	-	18			
6	0.0	10-12	U	-	-	18			
						-			
							-		
							J		

Fill to ~6 ft. bgs

ft. bgs = feet below ground surface

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

	LC	CS In	1c.			SU	BSUR	FACE I	LOG
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.	10B667.22
CLIENT:				Russo Develop	ment, In	ic.		BORING/WELL N	lo. BH4
DATE S	TARTED:	3/31	/2010	_ DATE COM	/PLETE	D:3/	/31/2010	RECORDED BY:	AZ
GROUN	DWATER D	EPTH W	HILE DR	ILLING:	~8	ft. bgs	AFTER COMI	PLETION:	NA
WEATH	ER:	45°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo	Development, Inc.
DRILL S	IZE/TYPE:		Macr	o-core	SAMI	PLE HAMME	R: WEIGHT	NAFA	ALL NA
	Ī				Γ				
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	NO. 10 P. 10	Material Classification	on and Description stem-Visual Manual Method)
111	0.0	0-2	U	((()	-	20	0-0.4ft: Gray gr	avel (coarse, angular	r, packed, moist)
2	0.0	2-4	U	7	171	20	0.4-4.5ft: Black	silty sand (coarse, m	nedium, fine, dense, moist)
		ottoba					04000 Spec 120 130		
3	0.0	4-8	U	147	-	15	4.5-8ft: Brownis	sh-gray silty clay (higl	h plasticity, soft, moist)
4	0.0	8-12	U	-	-	20	8-10ft: Gray silt	y sand (coarse, med	ium, fine, dense, wet)
							10-12ft: Gray s	ilty clay (medium plas	sticity, soft, moist
							-		
							-		
							1		
							1		
							1		
	•								
							-		
			-				-		
							-		
							1		
							1		
NOTES	NA = Not A	pplicable	•	***************************************	•	•	Fill to ~4.5 ft. bgs		

*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE

No suspect odors detected

C - CORE

ft. bgs = feet below ground surface

	LO	CS Ir	1c.			SU	BSUR	FACE LO	ЭG
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.	10B667.22
CLIENT:				Russo Develop	ment, In	IC.		BORING/WELL No.	BH5
1								RECORDED BY:	
GROUN	DWATER D	EPTH WH	HILE DR	ILLING:		NA	AFTER COM	MPLETION:	NA
1				,				Russo De	
DRILL S	IZE/TYPE:		Macr	o-core	SAMI	PLE HAMMEI	R: WEIGHT	NA FALL	. NA
	ī								
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification a Soil Classification System	[AD]
1	0.4	0-2	U	-		20	0-0.4ft: Black	silty gravel (coarse, angul	lar, packed, moist)
							1		
2	0.6	2-4	U		-	20	0.4-5ft: Black	sandy gravelly silt (low pla	asticity, moist)
-							-		
3	0.3	4-6	U			20	5-12ft: Brown	silty clay (high plasticity, s	soft, moist)
4	0.3	6-8	U	-	-	20			
-							1		
5	0.2	8-10	U	-	-	20	-		
6	0.2	10-12	U	-	•	20			
							-		
							-		
							-		
							-		
							1.		
							1		

Fill to ~5 ft. bgs

ft. bgs = feet below ground surface

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

LCS Inc.						SUBSURFACE LOG				
PROJECT/ LOCATION: 300 Ohio Str					eet, Buffalo, New York			PROJECT No.	10B667.22	
CLIENT: Russo Develop										
					1PLETED: 3/31/2010					
GROUNDWATER DEPTH WHILE DRILL			ILLING:		NA	AFTER COM	MPLETION:	NA		
WEATHER:		45°F, Sunny DRILL RIG:			G	Geoprobe DRILL		Russo Dev	velopment, Inc.	
DRILL SIZE/TYPE:		Macro-core			_ SAMPLE HAMMER: WEIGHT			NAFALL	NA	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification ar Soil Classification System	E.	
11	3.5	0-4	U	•		18	0-1ft: Brown gravel with brick (coarse, angular, packed, moist)			
2	0.3	4-6	U	<u>-</u>	-	21	1-5ft: Black silty sand (coarse, medium, fine, dense, moist)			
3	0.1	6-8	U	(4)	-	21	5-10ft: Brown silty clay (high plasticity, soft, moist)			
4	0.5	8-10	U		-	20	10-12ft: Black	ish-gray sandy silt (no plas	ticity, moist)	
5	0.3	10-12	U	-	-	20				
							-			
							-			
							-			
							-			
							1			
							-			
NOTES	NOTES NA = Not Applicable Fill to ~5 ft. bgs ft. bgs = feet below ground surface No suspect odors detected									
*SS - SPLIT-SPOON SAMPLE U - UNDISTURBED TUBE P - PISTON TUBE C - CORE										

	LC	CS Ir	ıc.			SU	JBSURFACE LOG			
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No	le	10B667.22
								BORING/WEL		
										AZ
GROUN	DWATER D	EPTH WH	IILE DR	ILLING:	~4 ft. bgs AFTER COM			IPLETION:		NA
WEATHE	ER:4	15°F, Sun	ny	DRILL RIG:	Geoprobe DRILI			Ru	sso Develo	pment, Inc.
DRILL SI	ZE/TYPE:		Macro	o-core	SAM	PLE HAMMEI	R: WEIGHT	NA	FALL _	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)		Material Classifi Soil Classification		escription ual Manual Method)
1	1.8	0-2	U	-		20	0-4ft: Black sa	indy gravelly silt w	ith brick (low	plasticity, moist)
2	2.9	2-4	U	-	.=.	20	4-8ft: Black gr	avelly silt (low pla	sticity, wet)	
3	0.8	4-8	U		-	15	Refusal @ 8 fi	t. bgs		
							-			
			-	<u> </u>						
)									
							-			
]			
							-			
							1			
							-			
NOTES	KIX LIVE	<u> </u>			l	<u> </u>	Fill to 0.6 has			
NOTES	NA = Not A ft. bgs = fee	-	ound surf	ace	Fill to ~8 ft. bgs No suspect odo	rs detected				
	*			POON SAMPLE	U - U	NDISTURBED			C - CORE	

	LO	CS II	1C.			SU	UBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	·k	PROJECT No.	10B667.22		
1		-						BORING/WELL No.			
1								RECORDED BY:			
GROUN	DWATER D	EPTH W	HILE DR	ILLING: _	NA AFTER CO			MPLETION:	NA		
WEATH	ER:	45°F, Sun	ny	DRILL RIG:		Geoprobe	DRILLER:	Russo Dev	velopment, Inc.		
DRILL S	IZE/TYPE:		Macro	o-core	SAM	PLE HAMME	R: WEIGHT	NAFALL	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)		Material Classification an Soil Classification System-	Visual Manual Method)		
11	1.8	0-4	U		-	10	0-5ft: Gray gra	avel with brick (coarse, ang	ular, loose, moist)		
2	0.9	4-8	U	<u>-</u>	-	10	5-5.5ft: Black	gravel (coarse, angular, loc	ose, moist)		
3	0.8	8-10	U	2	2	15	5.5-10ft: Black	kish-gray clayey silt (low pl	asticity, moist)		
4	0.9	10-12	U	-	-	15	10-12ft: Brow	nish-orange silty sand (fine	, dense, moist)		
NOTES	NA = Not A	pplicable					Fill to ~5.5 ft. bç	gs			
	ft. bgs = fee		ound surf	ace			No suspect odo				
		*SS -	SPLIT-SF	POON SAMPLE	U - U	NDISTURBED	TUBE P-P	ISTON TUBE C - COR	E		

	LC	CS II	ıc.			SU	UBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Stre	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
DATE ST	ΓARTED:	3/31	/2010	_ DATE COM	IPLETE	D:3/	/31/2010	RECORDED BY:	AZ		
GROUNI	DWATER D	EPTH WH	HILE DR	ILLING:		NA	AFTER COM	1PLETION:	NA		
WEATHE	ER:	45°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	DRILLER: Russo Development, Inc.			
DRILL SI	ZE/TYPE:		Macro	o-core	SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	(Unified	Material Classification and Soil Classification System-V				
1	0.8	0-2	U		(#/)	24	0-3ft: Black silty gravel with brick (coarse, angular, loose, moist)				
2	3.2	2-4	U		-	24	3-4ft: Black sil	lty gravelly sand (coarse, me	dium, fine, dense, moist)		
3	1.4	4-6	U	41	(= 0)	16	4-12ft: Blackis	sh-gray silty clay (high plastic	ity, soft, moist)		
]				
4	1.1	6-8	U			16	-				
-	10	0.40	<u> </u>			04	-				
5	1.2	8-10	U	-	127	24	1				
6	0.7	10-12	U	•	(+)	24]				
							-				
							-				
							-				
			-				-				
							-				
			-				-				
							1				
NOTES	NA = Not A ft. bgs = fee	enti mo-o mo-	ound our	200			Fill to ~4 ft. bgs No suspect odo	re detected			
	n. bys – 186			POON SAMPLE	1111			ISTON TUBE C - CORE			

	LC	CS II	ıc.			SU	JBSURFACE LOG			
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT	No.	10B667.22
		17. T vo.		Russo Develop				7.0		
										AZ
GROUNI	DWATER D	EPTH Wh	IILE DR	ILLING:		NA	AFTER COM	IPLETION:		NA
WEATHE	ER:4	45°F, Sun	ny	DRILL RIG:	Geoprobe DRILLER:				Russo Develo	pment, Inc.
DRILL SI	ZE/TYPE:	11 1	Macro	o-core	_ SAMI	PLE HAMMEI	R: WEIGHT	NA	FALL _	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)			ssification and D	escription ual Manual Method)
1	35.1	0-2	U		-	15	0-3.5ft: Black	sandy silt (no p	plasticity, moist)	
2	1.2	2-4	U	-	-	15	3.5-6ft: Gray s	and (coarse, r	nedium, fine, de	nse, moist)
3	1.0	4-6	U	-	-	20	6-10ft; Browni	sh-gray silty cl	ay (high plastici	ty, soft, moist)
4	1.3	6-8	U	•	-	20	10-12ft: brown	nish-gray silty s	sand (coarse, m	edium, fine, dense,
5	0.7	8-10	U	<u>'</u>	- 12	20	, moisty			
6	0.3	10-12	U		-	20				
]					
							-			
NOTES	NA = Not A		•			•	Fill to ~3.5 ft. bg	s		
	ft. bgs = fee	et below gro	ound surf	ace			No suspect odo	rs detected		
		*SS - :	SPLIT-SF	POON SAMPLE	U - U	NDISTURBED	TUBE P - PI	ISTON TUBE	C - CORE	

	LC	CS Ir	1c.			SU	BSUR	FACE	LOG			
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22			
1									No. BH11			
1									:AZ			
GROUN	DWATER D	EPTH WH	HILE DR	ILLING:		NA	AFTER COM	IPLETION:	NA			
H	VEATHER: 45°F, Sunny DRILL RIG:											
DRILL S	RILL SIZE/TYPE: Macro-core				SAMI	PLE HAMME	R: WEIGHT	NA I	FALL NA			
					1							
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified		tion and Description ystem-Visual Manual Method)			
11	832	0-2	υ	-	-	14	0-1ft: Black sil	ty sandy gravel with	brick (fine, angular, packed,			
							moist)					
2	1,784	2-4	U	-	171	14	-					
	S. Takelin i	W. 175	629150			10020	1-4ft: Black sil	ty sand (fine, dense,	, moist)			
3	1,897	4-8	U	-		20	4.400.0	Ity clay (high plasticity, soft, moist)				
4	98.8	8-10	U	-	-	18	4-12ft; Gray s	ity clay (nigh plasticity, soft, moist)				
4	90.0	0-10	0	-		10						
5	41.1	10-12	U	-	-	18						
]					
							-					
							-					
							-					
							-					
							-					
							-					
]					
							_					
							-					

Fill to ~1 ft. bgs

ft. bgs = feet below ground surface

Suspect petroleum-type odors @ 1-11 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

	LC	CS Ir	1C.			SU	BSUR	FACE L	,OG
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.	10B667.22
H								BORING/WELL No	
H									AZ
H.								MPLETION:	
II.								Russo [
ii .								NAFAI	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification Soil Classification Syste	and Description em-Visual Manual Method)
1	11.1	0-4	U	-	-	15		gravelly clayey sand (coa	arse, medium, fine, dense,
							moist)		
2	-	4-8	U		j a ji		0.46. Black a		as donae maieth
3	583	8-12	Ü	•	-	20	3-4π; Black sa	and (coarse, medium, fir	le, dense, moist)
- 3	363	0-12				20	4-8ft: No reco	verv	
4	3.0	12-16	U		-	10		,	
							8-16ft: Black	sandy silt (low plasticity,	wet)
							-		
							-		
							-		
							-		
							-		
							-		
							1		
							1		
							1		
						1	-		
					-		-		
NOTES	NA - Not A	nnligable		L	J		Fill to ~3 ft. bgs		
NOTES	NA = Not A ft. bgs = fee		ound sur	face				eum-type odors @ 3-4 ft	. bgs
	590 100	~51011 git	- GG GGII						

	LC	CS Ir	ıc.			SU	BSUR	FACE I	LOG			
PROJEC	T/ LOCATION	DN:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22			
1									No. BH13			
ı									AZ			
GROUND	DWATER D	EPTH WH	HILE DR	ILLING:		NA	AFTER COM	PLETION:	NA			
WEATHE	ER:4	5°F, Sun	nny	DRILL RIG:	G	eoprobe	DRILLER:	Russo	Development, Inc.			
DRILL SI	ZE/TYPE:	_	Macro	o-core	SAM	PLE HAMMEI	R: WEIGHT	NA F	ALL NA			
			Ī		T							
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classificati Soil Classification Sy	on and Description stem-Visual Manual Method)			
1	3.2	0.4-2	U	7	-	15	5 0-0.4ft: Asphalt					
2	2.6	2-4	U	120 	-	20	20 0.4-1ft: Black gravelly silt (no plasticity, moist)					
	1919 1911		l				20 1-3ft: Black sand (coarse, medium, fine, dense, moist)					
3	13.2	4-8	U	-	-	20	1-3ft: Black sa	nd (coarse, medium,	tine, dense, moist)			
4	2.6	8-12	U	-		10	3-12ft: Browni	sh-gray clay (high pla	asticity, stiff, moist)			
7	2.0	0-12		Nº4		,,		o., g., o., (g., p.,	,			
							-					
							-					
							-					
							1					
							1					
							1					
							1					
]					
							1					
							_					
			-				-					
	L	L			<u></u>							
NOTES	NA = Not A ft. bgs = fee		ound sur	face			Fill to ~1 ft. bgs No suspect odd					

U - UNDISTURBED TUBE

*SS - SPLIT-SPOON SAMPLE

P - PISTON TUBE

2 2 3 3 3	LC	CS Ir	ıc.			SU	BSUR	FACE LO	G		
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yor	k	PROJECT No.	10B667.22		
l .								BORING/WELL No			
l .								RECORDED BY:			
								IPLETION:			
I								Russo Deve			
DRILL S	IZE/TYPE:		Macro	o-core	SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA		
	T	T	Г		Г			1			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-V			
11	1 0.0 0.4-2 U 16							lt			
2	0.4	2-4	U		-	16	0.4-1ft: Gray (gravel (coarse, angular, pack	ed, moist)		
					-	15	-				
3 0.0 4-6 U							1-5ft: Black cl	ayey silt (low plasticity, moist)		
4	0.0	6-8	U	248		15	5-10ft: Gray c	layey sand (fine, dense, mois	st)		
5	1.5	8-10	U	-	-	15	10-12ft: Gray	sandy clay (fine, dense, mois	st)		
6	0.0	10-12	U	-	-	15]				
							-				
							-				
							-				
							-	ě			
		-					-				
							88				
		-					-				
							-				
	-		-			+					
NOTES	NA N					Fill to ~1 ft. bgs	×				
NOTES	NA = Not A ft. bgs = fe		ound surf	face			No suspect odd				

U - UNDISTURBED TUBE

*SS - SPLIT-SPOON SAMPLE

C - CORE

P - PISTON TUBE

	LC	CS In	1C.			SUBSURFACE LOG					
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	·k	PROJECT No		10B667.22	
CLIENT:								BORING/WEL			
										AZ	
11								- IPLETION:			
WEATHE	ER:	51°F, Sun	ny	DRILL RIG:	G	Geoprobe	DRILLER:	Ru	sso Develo	pment, Inc.	
II .								NA			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)	(Unified	Material Classific		escription ual Manual Method)	
11	52.3	0.4-2	U	(4)	-	15	0-0.4ft: Aspha	ilt			
2	44.2	2-4	U	40	-	15	0.4-4.5ft: Black silty sand (fine, dense, moist)				
3	3.4	4-6	U		-	12	4.5-8.6ft: Brov	wnish-gray clayey	silt (low plas	ticity, moist)	
4	2.1	6-8	U	-	-	12	8.5-12ft: Brow	nish-gray silty cla	y (high plast	icity, soft, moist)	
5	0.5	8-10	U	-	-	20	-				
6	0.4	10-12	U		-	20					
NOTES	NA = Not A	Applicable	1			L	Fill to ~0.4 ft. b	gs			
	ft. bgs = fee	et below gr	ound surf	face			Suspect petrole	eum-type odors @	0-5 ft. bgs		
		*SS -	SPLIT-SI	POON SAMPLE	U - U	JNDISTURBED	TUBE P-F	PISTON TUBE	C - CORE		

	LC	CS Ir	ıc.			SU	UBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT	No	10B667.22	
CLIENT:				Russo Develop							
DATE ST										AZ	
				ILLING:							
WEATHE	R:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	_	Russo Develo	opment, Inc.	
DRILL SI	ZE/TYPE:		Macro	o-core	_ SAM	PLE HAMME	R: WEIGHT	NA	FALL _	NA	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified		ssification and E tion System-Vis	Description ual Manual Method)	
1	0.9	0.4-4	U	(-)	-	20	0-0.4ft: Asphal	t			
2	2.1	4-6	U	41	-	15	0.4-4ft: Brown	ish-gray grave	elly sandy clay (l	low plasticity, stiff, moist)	
3	1.8	6-8	U	(4 .8	-	15	4-11ft: Browni	sh-black silty	clay (high plasti	city, stiff, moist)	
4	2.3	8-10	U	•		15	11-12ft: Brown	nish-gray silty	sand (fine, dens	se, moist)	
5	2.7	10-12	U	-	-	15					
							_				
							1	*			
							1				
					1						
NOTES	NA = Not A	l applicable	L	I	1	<u></u>	Fill to ~0.4 ft. bg	ıs			
	ft. bgs = fee	et below gr	ound surf	face			No suspect odo	rs detected			
		*SS -	SPLIT-SI	POON SAMPLE	U - U	NDISTURBED	TUBE P-P	ISTON TUBE	C - CORE		

	LC	CS Ir	1C.			SU	SUBSURFACE LOG				
PROJEC	CT/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	rk	PROJECT No.	10B667.22		
1								BORING/WELL No.			
1								RECORDED BY:			
GROUN	DWATER D	EPTH WH	HILE DR	ILLING:	NA AFTER CO			IPLETION:	NA		
WEATH	ER:	51°F, Sun	ny	DRILL RIG:	G	Seoprobe	DRILLER:	DRILLER: Russo Development, Inc.			
DRILL S	IZE/TYPE:	-	Macro	o-core	_ SAM	PLE HAMME	R: WEIGHT	NAFALL	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	19	Material Classification and Soil Classification System-	100		
1	1.2	0.4-2	U		-	15	0-0.4ft: Aspha	ilt			
2	1.8	2-4	U	-	-	15	0.4-8ft: Gray s	silt (low plasticity, moist)			
3	0.3	4-8	U	-	-	18	8-12ft: Brown	silty sand (fine, dense, moi	st)		
4	4 0.3 8-10 U -					20					
5						20					
							_				
NOTES	NA = Not A			I .		1	Fill to ~0.4 ft. b				
1	ft. bgs = fe	et below gr	ound surf	face			No suspect odors detected				

	LC	CS Ir	ıc.			SU	UBSURFACE LOG					
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yor	k	PROJECT	No.	10B667.22		
CLIENT:			F	Russo Develop	ment, In	C.		BORING/V	VELL No	BH18		
										AZ		
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:	IG: ~8 ft. bgs			AFTER COMPLETION: NA NA				
WEATHE	ER:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:		Russo Devel	opment, Inc.		
DRILL SI	ZE/TYPE:		Macro	o-core	SAM	PLE HAMME	R: WEIGHT	NA	FALL _	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	Z	Recovery (Inches)	(Unified		ssification and E tion System-Vis	Description sual Manual Method)		
11	527	0.4-4	U			18	0-0.4ft: Aspha	ılt				
2	451	4-6	U	~	-	ose, moist)						
3	4.2	6-8	U	-	-	16	5-8ft: Brownis	h-gray silty cla	y (medium den	se, stiff, moist)		
4	17.2	8-12	U	-	-	20	8-10ft: Browni	ish-gray silty c	lay (medium de	nse, stiff, wet)		
							10-12ft: Brow	n silty sand (fir	ne, dense, mois	t)		
							-					
							-					
NOTES	NOTES NA = Not Applicable ft. bgs = feet below ground surface Fill to ~5 ft. bgs Suspect petroleum-type odors @ 3-10 ft. bgs											
		*SS -	SPLIT-SI	POON SAMPLE	U - U	NDISTURBED	TUBE P-P	PISTON TUBE	C - CORE			

	LC	CS Ir	ıc.			SU	BSUR	FACE LO	G				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yor	k	PROJECT No.	10B667.22				
1								BORING/WELL No.					
1								RECORDED BY:					
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:		NA	AFTER COM	IPLETION:	NA				
								Russo Devel					
DRILL S	IZE/TYPE:		Macr	o-core	SAME	PLE HAMMEI	R: WEIGHT	NAFALL	NA				
			Ι		T								
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	nes) (Unified Soil Classification System-Visual Manual Method)						
1	60.9	0.4-2	U	-	-	18	0-0.4ft: Aspha	lt					
2	923	2-4	U	-	-	18	0.4-5.5ft: Blac	k sandy gravelly silt (no plast	ticity, moist)				
							5 5 400 B		atantially and analyti				
3	845	4-6	U		-	12	5.5-12ft; Brow	nish-gray silty clay (medium	plasticity, soit, moist)				
4	229	6-8	U	(4 %)	-	12	-						
5	51.3	8-10	U	-		20	-						
							-						
6	22.9	10-12	U	-		20	-						
							-						
							-						
							1						
							1						
]						
						10.000	_						
-							-						
							-						
							-						
	-					-	-						

ft. bgs = feet below ground surface

Fill to ~5.5 ft. bgs

Suspect petroleum-type odors @ 1-10 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LC	CS Ir	ıc.			SU	BSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yor	ork PROJECT No. 10B667.22				
11							BORING/WELL No. BH20				
1							4/1/2010 RECORDED BY: AZ				
GROUN	DWATER D	EPTH WH	IILE DR	ILLING:	~9	ft. bgs	AFTER COMPLETION: NA NA				
WEATH	ER:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER: Russo Development, Inc.				
1							ER: WEIGHT NA FALL NA				
	1	Γ	T								
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)				
1	1.0	0.4-2	U			20	0-0.4ft: Asphalt				
2	1.4	2-4	U		-	20	0.4-2ft: Gray silty gravel (coarse, angular, packed, moist)				
3	2.0	4-8	U	-	-	20	2-3ft: Brown silty sand (fine, dense, moist)				
4	2.8	8-10	U	-	35	22	3-6ft: Black silty sand (fine, dense, moist)				
5	2.0	10-12	U	-	(1	22	6-9ft: Grayish-brown silty sand (fine, dense, moist)				
							9-12ft: Brownish-gray silty sand (fine, dense, wet)				
							_				
NOTES	NA = Not A	pplicable	L		•	•	Fill to ~2 ft. bgs				
	ft. bgs = fee	et below gr	ound surf	ace			No suspect odors detected				

U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

*SS - SPLIT-SPOON SAMPLE

LCS Inc. SUBSURFACE LOG											
PROJEC	T/ LOCATIO	DN:		300 Ohio Str	eet, Buff	falo, New York	ζ	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
								RECORDED BY: _			
								IPLETION:			
WEATHE	ER:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Dev	velopment, Inc.		
								NAFALL			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified Soil Classification System-Visual Manual Method)				
1	1.4	0.4-4	U	-	20	0-0.4ft: Asphalt					
2	7.1	4-6	U	-	16	0.4-2ft: Black	silty gravel (coarse, angula	ar, loose, most)			
3	21.3	6-8	U	-	-	16	2-12ft: Browni	sh-gray silty clay (high pla	sticity, soft, moist)		
4	18.7	810	U		-	16					
5	5.2	10-12	U	121	-	16					
				1.00							
]				
						-					
							-				
							-				
						-	1				
NOTES	NA = Not A	onligable			<u> </u>		Fill to ~2 ft bas	8			

ft. bgs = feet below ground surface

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE P - PISTON TUBE

	LC	CS Ir	1C.			SU	JBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	·k	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
DATE S									AZ		
								IPLETION:			
								Russo De			
DRILL S	IZE/TYPE:		Macro	o-core	SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA		
	Γ—-						T				
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification a Soil Classification System			
11	1.7	0.4-4	U		-	20	0-0.4ft: Aspha	lt			
2	4.5	4-6	U		-	24	0.4-1ft: Brown	gravelly sandy silt (no pla	asticity, moist)		
3	6.8	6-8	U	-	-	24	1-5.5ft: Black	gravelly sandy silt (no pla	sticity, moist)		
4	3.9	8-10	U		-	20	5.5-12ft: Brow	nish-gray sandy silty clay	(high plasticity, soft, most)		
5	2.7	10-12	U	-	-	20					
							-				
							1				
							-				
							-				
							-				
NOTES	NA = Not A	pplicable					Fill to ~1 ft. bgs				
	ft. bgs = fee	et below gro	ound surf	ace			No suspect odo	rs detected			

	LC	CS Ir	ıc.			SUBSURFACE LOG					
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT N	0.	10B667.22	
1								BORING/WE			
1										AZ	
GROUNI	DWATER D	EPTH WH	IILE DR	LLING:		NA	AFTER COM	MPLETION:		NA	
WEATHE	ER:	51°F, Sun	ny	DRILL RIG:	Geoprobe DRILLER:			R	usso Develo	opment, Inc.	
										NA	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Туре	Blows/6"	N	Recovery (Inches)	(Unified	Material Classi Soil Classificatio		Description ual Manual Method)	
1	2.1	0.4-2	U	-	(3)	16	0-0.4ft: Aspha	alt			
2	50.7	2-4	U		-	16	0.4-8ft: Black	gravelly sand (fir	ne, dense, mo	ist)	
3	168	4-6	U	-	-	20	8-12ft: Gray s	ilty clay (high pla	sticity, soft, m	noist)	
4	303	6-8	U	-	-	20	-				
5	13.5	8-10	U	<u> </u>	121	22					
6	14.0	10-12	U	-	-	22					
NOTES	NA = Not A ft. bgs = fee	et below gr		ace POON SAMPLE	11-11	INDISTURBED	COMPANY STATE OF STAT	s eum-type odors @ PISTON TUBE	② 3-8 ft. bgs C - CORE		

	LCS Inc. SUBSURFACE LOG											
PROJEC	T/ LOCATION	 DN:		300 Ohio Str	eet, Buff	alo, New Yor	k	PROJECT N	lo.	10B667.22		
				Russo Develop								
				_ DATE COM								
				ILLING:								
WEATHE	R:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	F	Russo Develo	ppment, Inc.		
DRILL SI	ZE/TYPE:		Macro	o-core	_ SAMF	PLE HAMMEI	R: WEIGHT	NA	_ FALL _	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Class		escription ual Manual Method)		
1	241	0.4-2	U	-	*	20	0-0.4ft: Aspha	It				
2	616	2-4	U	-	-	20	0.4-5ft: Black gravelly silty sand (fine, dense, most)					
3	462	4-6	U	-	-	18	5-8ft: Brown si	ilty clayey sand	(fine, dense, r	noist)		
4	27.7	6-8	U	28 8-12ft: Brownish-gray silty sandy clay (high plasticity, so								
5	15.7	8-10	U	-	-	18						
6	15.4	10-12	U	-	-	20						
							-					
							-					
							-					
NOTES	NA = Not A		ound surf	face			Fill to ~5 ft. bgs Suspect petrole	um-type odors	@ 3-5.5 ft. bgs	3		
		*SS -	SPLIT-SI	POON SAMPLE	U - U	INDISTURBED	TUBE P-P	ISTON TUBE	C - CORE			

	LC	CS Ir	ıc.			SU	BSUR	FACE L	OG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yorl	k	PROJECT No.	10B667.22				
CLIENT:								BORING/WELL No					
DATE ST								RECORDED BY:					
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:	~8	ft. bgs	AFTER COM	IPLETION:	NA				
WEATHE	ER:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo D	Development, Inc.				
DRILL SI	ZE/TYPE:		Macr	o-core	SAME	PLE HAMMER	R: WEIGHT	NA FAL	_L NA				
			l										
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification Soil Classification Syste	and Description em-Visual Manual Method)				
1	157	0.4-4	U	-	-	6	6 0-0.4ft: Asphalt						
2	21.7	4-8	U		-	18	18 0.4-4ft: Black silty gravel (coarse, angular, loose, moist)						
3	98.4	8-10	U	-	-	24	4-8ft: Gray silt	y clay (high plasticity, se	oft, moist)				
4	16.8	10-12	U	-	-	24	8-12ft: Browni	sh-gray sandy silt (no p	lasticity, wet)				
							-						
			-				-						
			-				-						
							1						
							25						
]						
				l l]						

Fill to ~4 ft. bgs

ft. bgs = feet below ground surface

Suspect petroleum-type odors @ 0-10 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

10 mm	LCS Inc. SUBSURFACE LOG											
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22			
11								BORING/WELL No.				
II.								RECORDED BY:				
II .								MPLETION:				
WEATH	ER:	51°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	elopment, Inc.			
DRILL S	IZE/TYPE:		Macr	o-core	_ SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA			
	DIDAIN	D!!-	T	Diama (C)	X.	Pagavani		Material Classification and	I Description			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Soil Classification System-\				
1	-	0-4	U	-	-	0	0-4ft: No recovery					
2	102	4-8	Ü	-	-	15	4-12ft: Gray s	ilty clay (medium plasticity,	stiff, moist)			
3	175	8-10	U	-	848	17						
4	32.1	10-12	U			16						
							-					
							-					
							-					
							-					
							-					
							1					
							-					
NOTES	NA = Not A	Applicable					No apparent fill	encountered	The second secon			

U - UNDISTURBED TUBE

ft. bgs = feet below ground surface

*SS - SPLIT-SPOON SAMPLE

Suspect petroleum-type odors @ 8-10 ft. bgs

C - CORE

P - PISTON TUBE

	LC	CS Ir	1c.			SU	BSUR	FACE LO	G			
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22			
								BORING/WELL No.				
	-							RECORDED BY:				
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:		NA	AFTER COM	MPLETION:	NA			
WEATHE	ER:	65°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	lopment, Inc.			
DRILL SI	ZE/TYPE:	-	Macr	o-core	_ SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-Vi	1.00 (2000) Treatment (1970) (1970) (2000) (2000) (1970) (2000)			
1	2.9	0.4-2	U			17	0-0.4ft: Aspha	ilt				
2	25.1	2-4	U	2	-	17	0.4-1ft: Gray silty gravel (coarse, angular, loose, moist)					
3	42.0	4-6	U	-		15	1-7ft: Brownish-black silty sand (fine, dense, moist)					
4	961	6-8	U	-	-	15	7-9ft: Brownish-gray silty clay (high plasticity, stiff, moist)					
5	998	8-10	U	-	_	20	9-12ft: Gray s	andy silt (low plasticity, moist)			
6	6.0	10-12	U	-	-	20						
							_					
							-					

Fill to ~1 ft. bgs

ft. bgs = feet below ground surface

Suspect petroleum-type odors @ 2-12 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

	LC	CS In	1C.			SU	BSUR	FACE	LO	G	
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.		10B667,22	
								BORING/WEL			
1										AZ	
										NA	
l								Rus			
DRILL SI	IZE/TYPE:	-	Macro	o-core	_ SAMI	PLE HAMME	R: WEIGHT	NA	FALL _	NA	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classific		Description ual Manual Method)	
11	57	0.4-2	U		:=:	17	0-0.4ft: Aspha	lt			
2	268	2-4	U) - /	-	17	0.4-1ft: Gray silty gravel (coarse, angular, loose, moist)				
3	445	4-6	U	47	-	20	1-12ft; Black s	silty sandy clay (hig	gh plasticity	, medium stiff, moist)	
4	523	6-8	U	-	-	20	-				
5	138	8-10	U	i - s	-	20					
6	5	10-12	U	(4)	2-	20					
]				
							-				
							-				
							-				
NOTES	NA = Not A ft. bgs = fe		ound surf	Iface	J.	I-	Fill to ~1 ft. bgs	eum-type odors @	1-8 ft. bgs		
		*SS -	SPLIT-S	POON SAMPLE	U - L	JNDISTURBED	TUBE P-F	PISTON TUBE	C - CORE		

4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	LC	CS In	ıc.			SU	BSUR	FACE LC)G		
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	alo, New Yor	k	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
								RECORDED BY:			
H								IPLETION:			
								Russo Dev			
								NAFALL			
					Т				A CONTRACTOR OF THE STATE OF TH		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)				
1	25	0.4-4	U		-	20	0-0.4ft: Aspha	lt			
2	-	4-8	U	-	-	0	0.4-1ft: Gray s	silty gravel (coarse, angular	, loose, moist)		
3	12	8-10	U	-	-	15	1-4ft: Black gr	avelly silty sand (fine, dens	e, moist)		
4	>999	10-12	U	-	-	15	4-8ft: No reco	very			
5	7	12-14	U	-	=	20	8-12ft: Black	silty sand (fine, dense, wet)			
6	8	14-16	U	-	-	20	12-16ft: Brow	nish-red clay (high plasticity	, stiff, moist)		
							-				
							_				
					-		-				
							-				
		-					1				
	_						1				
							1				
					1						

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

Suspect petroleum-type odors @ 8-12 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

1	LC	CS In	ıc.			SU	JBSURFACE LOG						
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yo	rk	PROJECT I	No.	10B667.22			
II .										AZ			
										NA			
1							DRILLER:						
ı							R: WEIGHT						
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Soil Classificati	sification and E	Description Lual Manual Method)			
2	3	2-4	U	-	-	18	18 0.4-4.5ft: Brownish-gray silty sand (coarse, medium, fine, dense,						
							moist)	,	•				
3	3	4-6	U) <u>4</u> 2	:=:	16]						
							4.5-11ft: Gray	silty clay (high	plasticity, soft,	moist)			
4	8	6-8	U	-	-	16							
		2 2 2	500				11-12ft: Brow	n silty sand (co	arse, medium,	fine, loose, wet)			
5	26	8-12	U	•	-	18	-						
			-										
							_						
							-						
							_						
	-				ļ		-						
							-						
							1						
	-				-		4						
NOTES	NA = Not A						Fill to ~0.4 ft. b						
	ft. bgs = fe	et below gr	ound sur	iace		No suspect odd	ors detected						

	LC	CS Ir	ıc.			SU	JBSURFACE LOG			
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.	10B667.22	
CLIENT:								BORING/WELL No		
DATE S								RECORDED BY:		
GROUN	DWATER D	EPTH WH	IILE DR	ILLING:	~8	ft. bgs	AFTER COM	MPLETION:	NA	
WEATH	ER:	65°F, Sun	ny	DRILL RIG:	Geoprobe DRILLER:			Russo Deve	lopment, Inc.	
DRILL S	IZE/TYPE:		Macro	o-core	SAMI	PLE HAMMEI	R: WEIGHT	NAFALL	NA	
	Т	T	T T		l e		T			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-V		
11	-	0-8	U		-	0	0-8ft: No reco	very		
2	e 663 8-10 U 12						8-10ft: Black silty sand (coarse, medium, fine, dense, wet)			
3	310	10-12	U	-		12	10-12ft: Brow	n silty sand (coarse, medium	, fine, dense, wet)	
							_			
							<u> </u>			
							-			
							-			
							_			
							-			
			ļ				-			
NOTES	NA = Not A	l Applicable					No apparent fill	l encountered		
	ft. bgs = fe		ound sur	face				eum-type odors @ 8-11 ft. bg	s	

U - UNDISTURBED TUBE

*SS - SPLIT-SPOON SAMPLE

C - CORE

P - PISTON TUBE

	LC	CS Ir	ıc.			SU	UBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	ork PROJECT No. 10B667.22				
1							BORING/WELL No. BH32				
DATE S	TARTED:	4/2/	2010	_ DATE COM	MPLETE	D:4	4/2/2010 RECORDED BY: AZ				
GROUN	DWATER D	EPTH WH	IILE DR	ILLING:	~9	ft. bgs	AFTER COMPLETION: NA				
WEATH	ER:	35°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER: Russo Development, Inc.				
DRILL S	IZE/TYPE:		Macre	o-core	SAMI	PLE HAMME	ER: WEIGHT NA FALL NA				
	Γ										
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)				
11	5	0.4-2	U		-	15	0-0.4ft: Asphalt				
2	5	2-4	U	-	-	15	0.4-1ft: Black gravelly silty sand (fine, dense, moist)				
3	3 6 4-8 U						4-9ft: Brown silty sand (fine, dense, moist)				
4	3	8-10	U	-	-	17	9-12ft: Brown silty sand (fine, dense, wet)				
5	4	10-12	U	-	-	17					
							_				
							_				
							_				
							_				
NOTES	NA = Not A	pplicable					Fill to ~4 ft. bgs				
I	ft_bas = fee	et below ar	ound sur	face			No suspect odors detected				

	LC	CS Ir	ıc.		BSURFACE LOG		
PROJEC	T/ LOCATIO	ON:		300 Ohio Str	eet, Buff	falo, New Yorl	PROJECT No10B667.22
							BORING/WELL No. BH33
DATE ST	TARTED:	4/2/	2010	DATE CON	/PLETE	D: 4	2/2010 RECORDED BY: AZ
1				70		(-)	AFTER COMPLETION: NA
							DRILLER: Russo Development, Inc.
DRILL SI	ZE/TYPE:		Macr	o-core	SAM	PLE HAMMER	R: WEIGHT NA FALL NA
					_		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)
11	3	0.4-2	U	2	-	16	0-0.4ft: Asphalt
2	3	2-4	U	-	-	16	0.4-2ft: Black silty sandy gravel (coarse, angular, loose, moist)
3	3	4-6	U		-	17	2-6ft: Brownish-gray clayey silty sand (coarse, medium, fine, dense,
							moist)
4	3	6-8	U	-	-	17	
							6-8ft: Brownish-gray silty sandy clay (low plasticity, stiff, moist)
5	3	8-10	U		-	17	
		10.10	.			47	8-10ft: Black sandy silt (low plasticity, wet)
6	3	10-12	U	-		17	10-12ft: Brownish-gray sandy silt (low plasticity, wet)
							10-1211. Blownish-gray sailty sit (low plasticity, wet)
					-		

ft. bgs = feet below ground surface

Fill to ~2 ft. bgs

No suspect odors detected

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

2 2 2 0	LC	CS Ir	1C.			SUBSURFACE LOG					
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	rk	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
DATE ST								RECORDED BY:			
GROUNI	DWATER D	EPTH WH	IILE DR	ILLING:	~8 ft. bgs AFTER CC			MPLETION:	NA		
WEATH	ER:	65°F, Sun	ny	DRILL RIG:	G	Seoprobe	_ DRILLER:	Russo Deve	lopment, Inc.		
DRILL S	IZE/TYPE:		Macro	o-core	_ SAM	PLE HAMME	R: WEIGHT	NAFALL	NA		
			Ī		1						
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-V	Common Common Participation of the Participation of the Common of the Co		
11	3	0.4-2	U		-	15	0-0.4ft: Aspha	alt			
2	3	2-4	U	-	2 0	15	0.4-8ft: Black	silty clay (low plasticity, soft,	moist)		
3	6	4-6	U	-	-	15	8-10ft: Black s	silty sand (fine, dense, wet)			
4	22.5	6-8	U	.=8	-	15	10-12ft: Red o	clay (high plasticity, stiff, wet)			
5	12	8-10	U	20	-	20					
6	5	10-12	U	-	-	20					
4:											
NOTES	NA = Not A						Fill to ~4 ft. bgs				
1	ft. bgs = fee	et below gro	ound surf	ace			No suspect odd	ors detected			

U - UNDISTURBED TUBE P - PISTON TUBE

C - CORE

*SS - SPLIT-SPOON SAMPLE

	LC	CS II	ıc.			SU	SUBSURFACE LOG				
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	ork PROJECT No10B667.22				
CLIENT:	-			Russo Develop	ment, Ir	ıc.	BORING/WELL No. BH35				
DATE ST	TARTED:	4/2/	2010	DATE CON	//PLETE	D:4	4/2/2010 RECORDED BY:AZ				
GROUNI	DWATER D	EPTH W	ILE DR	ILLING:		NA	AFTER COMPLETION: NA				
WEATH	ER:	35°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER: Russo Development, Inc.				
DRILL S	IZE/TYPE:		Macr	o-core	_ SAMI	PLE HAMME	ER: WEIGHTNA FALLNA				
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	Material Classification and Description (Unified Soil Classification System-Visual Manual Method)				
1	3	0.4-4	U	(8)	-	20	0-0.4ft: Asphalt				
2	5	4-8	U	-		15	0.4-5ft: Black silty gravel (coarse, angular, loose, moist)				
3	4	8-10	U	<u>.</u>	-	12	5-8ft: Brown silty clay (high plasticity, soft, moist)				
4	3	10-12	U	-	-	12	8-10ft: Blackish-gray clayey silt (low plasticity, moist)				
							10-12ft: Brown sand (fine, dense, moist)				
							_				
							_ _				
							_				
							_				
							_				
							_				
NOTES	NA = Not A ft. bgs = fee		ound surf	ace			Fill to ~5 ft. bgs No suspect odors detected				

3		CS II	1C.			BSUR	FAC	E LO	G	
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT	No.	10B667.22
				Russo Develop						
				_ DATE CON						
GROUNI	DWATER D	EPTH WH	HILE DR	ILLING:	NA AFTER COM			PLETION:		NA
WEATHE	ER:	65°F, Sun	ny	DRILL RIG:	Geoprobe DRILLER:				Russo Develo	ppment, Inc.
DRILL SI	ZE/TYPE:	1 2 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14 	Macro	o-core	SAMPLE HAMMER: WEIGHT			NA	FALL _	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)	(Unified		sification and E	escription ual Manual Method)
							Did not comple	ete due to close	e proximity of n	atural gas utility
							-			
							-			
							-			
							-			
NOTES	NA = Not A	pplicable								
		*SS -	SPLIT-SE	POON SAMPLE	U - U	NDISTURBED	TUBE P-PI	STON TUBE	C - CORE	

3 3 3 3 3 3 3 3	LC	CS Ir	1c.			SU	BSUR	FACE	E LO	G
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT N	0.	10B667.22
CLIENT:				Russo Develop	ment, In	ıc.		BORING/WE	LL No.	BH37
DATE ST	TARTED:	3/31	/2010	_ DATE COM	//PLETE	D:4	/2/2010	RECORDED	BY:	AZ
GROUN	DWATER D	EPTH WH	HILE DR	ILLING:	~1(ft. bgs	AFTER COM	IPLETION:		NA
WEATH	ER:	65°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	R	usso Develo	pment, Inc.
DRILL S	IZE/TYPE:		Macr	o-core	SAMI	PLE HAMMEI	R: WEIGHT	NA	_ FALL _	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classi Soil Classificatio		escription ual Manual Method)
1	>999	0.4-4	U	-	-	20	0-0.4ft: Aspha	lt		
2	>999	4-6	U		-	17	0.4-4ft: Black	silty gravel (coar	se, angular, lo	oose, moist)
3	>999	6-8	U	-	•	17	4-10ft: Blackis	sh-green silty clay	/ (low plasticil	y, medium stiff, dry)
4	-	8-12	U	120	-	0	10-16ft: Black	sandy gravel (co	arse, angula	r, loose, wet)
5	>999	12-16	U	-	-	4				
							-			
							-			
]			
							-			
							-			

ft. bgs = feet below ground surface

Fill to ~4 ft. bgs

Suspect petroleum-type odors @ 0.4-16 ft. bgs

*SS - SPLIT-SPOON SAMPLE

U - UNDISTURBED TUBE

P - PISTON TUBE

	LCS Inc. SUBSURFACE LOG											
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22			
CLIENT:								BORING/WELL No				
DATE ST								RECORDED BY:				
								IPLETION:				
WEATHE	ER:6	35°F, Sun	ny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Deve	elopment, Inc.			
II .								NA FALL				
	 		Ī				ſ					
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Туре	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification and Soil Classification System-V				
11	6	0-2	U		-	13	0-3ft: Brownish	h-gray sandy silty gravel (co	arse, angular, loose,			
						200	moist)					
2	6	2-4	U		-	13						
	. 000			<u> </u>		16	3-12ft; Black s	ilty clay (high plasticity, soft	moist)			
3	>999	4-6	U		-	10						
4	>999	6-8	U	(4)	-	16						
,												
5	8	8-12	U		-	12						
							1					
							-					
			-		-		-					
			-				-					
							-					
							1					
							1					
			ļ				-					
-					-	-	-					
					-		1	(40)				
NOTES	NA - N-4 A	I nnliashia	1	<u> </u>			Fill to ~3 ft. bgs					
NOTES	NA = Not A ft. bgs = fe		ound surf	face				um-type odors @ 6-8 ft. bg:	s			
	J	9.						um-type staining @ 6-8 ft. b				

U - UNDISTURBED TUBE P - PISTON TUBE C - CORE

*SS - SPLIT-SPOON SAMPLE

	LC	CS Ir	ıc.			SU	BSUR	FACE LC)G
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT No.	10B667.22
II .								BORING/WELL No.	
I .								RECORDED BY:	
l .								IPLETION:	
								Russo Dev	
DRILL S	IZE/TYPE:		Macr	o-core	SAMI	PLE HAMMEI	R: WEIGHT	NAFALL	NA
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N -	Recovery (Inches)	(Unified	Material Classification and Soil Classification System- silt (low plasticity, moist)	
2	3	4-8	U	#9	-	10	8-12ft; No rec	overy	
3	-	8-12	U	-	-	0			
]		
							1		
							-		
							-		
							-		
NOTES	NA = Not A	nnlicable					Fill to ~8 ft. bas		

ft. bgs = feet below ground surface

No suspect odors detected

	LC	CS II	1C.		SUBSURFACE LOG						
PROJEC	T/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	k	PROJECT No.	10B667.22		
CLIENT:								BORING/WELL No.			
DATE ST								RECORDED BY:			
GROUNI	DWATER D	EPTH W	HILE DR	ILLING:		NA	AFTER COM	MPLETION:	NA		
WEATHE	ER:	65°F, Sun	iny	DRILL RIG:	G	eoprobe	DRILLER:	Russo Dev	elopment, Inc.		
DRILL S	IZE/TYPE:		Macro	o-core	SAMI	PLE HAMME	R: WEIGHT	NAFALL	NA		
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type	Blows/6"	N	Recovery (Inches)		Material Classification and Soil Classification System-	visual Manual Method)		
11	27	0-4	U	-		10	0-10ft: Black (gravelly silty clay (low plasti	city, soft, moist)		
2	4	4-8	U	-		10	10-12ft: Brow	nish-gray silly clay (low plas	sticity, soft, moist)		
3	23	8-10	U	•	-	13	-				
4	6	10-12	U	-	-	13		·			
NOTES	NA = Not A ft. bgs = fee		ound surf	ace			No apparent fill				
		*SS -	SPLIT-SF	POON SAMPLE	U - U	INDISTURBED	TUBE P-F	PISTON TUBE C - COR	Ε		

	LC	CS In	lc.			SU	JBSURFACE LOG				
PROJEC	T/ LOCATIO	 DN:		300 Ohio Str	eet, Buff	falo, New Yor	k	PROJECT N	No.	10B667.22	
				Russo Develop							
										AZ	
				_ ILLING:							
										pment, Inc.	
DRILL SI	ZE/TYPE:		Macro	o-core	_ SAMI	PLE HAMMEI	R: WEIGHT	NA	FALL	NA	
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Туре	Blows/6"	N	Recovery (Inches)	(Unified	Soil Classificati	sification and D	escription ual Manual Method)	
1	-	0-4	U	-	-	0	0-4ft: No recovery				
2	392	4-8	U	-	-	10	4-8ft: Black sa	andy silt (low pla	esticity, moist)		
3	5	8-12	U	-	-	16	8-12ft: Browni	sh-gray silty cla	y (high plasticil	y, soft, moist)	
				*							
							-				
							-				
							-				
NOTES	NA = Not A	pplicable			1	<u> </u>	No apparent fill	encountered			
	ft. bgs = fee	et below gro	ound surf	ace			Suspect petroleum-type odors @ 4-8 ft. bgs				
							Suspect petrole	um-type stainin	g @ 4-8 ft. bgs		
		*SS - S	SPLIT-SF	POON SAMPLE	U - U	NDISTURBED	TUBE P-P	ISTON TUBE	C - CORE		

	LO	CS II	1c.		SUBSURFACE LOG							
PROJEC	CT/ LOCATION	ON:		300 Ohio Str	eet, Buf	falo, New Yor	·k	PROJECT No.	10B667.22			
								BORING/WELL No.				
DATE S	TARTED:	3/31	/2010	_ DATE CON	//PLETE	D:4	1/2/2010	RECORDED BY:	AZ			
GROUN	DWATER D	EPTH W	HILE DR	ILLING:		NA	AFTER COM	MPLETION:	NA			
								Russo D				
DRILL S	IZE/TYPE:		Macro	o-core	_ SAM	PLE HAMME	R: WEIGHT	NAFAL	L NA			
Sample No.	PID/HNu Reading (ppm)	Depth (Feet)	Type *	Blows/6"	N	Recovery (Inches)	(Unified	Material Classification a	and Description n-Visual Manual Method)			
11	5	0-2	U		-	15	0-8ft: Black si	ilty gravel with brick (coar	se, angular, packed, moist)			
2	10	2-4	U		-	15	8-12ft: Brownish-gray silty clayey sand (fine, dense, moist)					
3	4	4-8	U	-	-	8						
4	2	8-10	U	-	-	20						
5	2	10-12	U	-	-	20						
							-					
							1					
							- -					
							-					
							-					
							-					
							-					
							-					
NOTES	NA = Not A ft. bgs = fee		ound surfa	ace			No apparent fill No suspect odd					
		*SS -	SPLIT-SF	OON SAMPLE	U - U	NDISTURBED	TUBE P-P	PISTON TUBE C - CO	RE			

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October 3, 2010

Tim McInerney National Vacuum 408 47th Street Niagara Falls, NY 14304

Transmitted via email to: Tim McInerney (jtmcinerney@nationalvacuum.com)

Dear Mr. McInerney:

Subject: Geophysical Survey Results, 300 Ohio Street, Buffalo, NY

1.0 INTRODUCTION

This letter report presents the results of the geophysical investigation performed for National Vacuum in support of their environmental investigation of a property located at 300 Ohio Street in Buffalo, NY. We understand that historical information compiled by others suggests that this property once operated as an automotive fuel station.

The geophysical investigation was designed to geophysically characterize the subsurface and focus a follow-up intrusive investigation. The information provided herein is intended to assist national Vacuum with their assessment of potential environmental concerns at the Site.

The objective for the geophysical survey was to explore for anomalies indicative of underground storage tanks (USTs). AMEC Geomatrix, Inc. performed data acquisition on September 8 and 9, 2010.

2.0 METHODOLOGY

A series of reference grids were installed at the site to facilitate data acquisition along lines spaced five feet apart. The grids were marked with orange and white spray paint with select coordinates labeled to allow subsequent work if necessary.

The site was geophysically surveyed using the Geonics EM61. The EM61 unit is a high sensitivity, high resolution time domain electromagnetic (TDEM) metal detector that can detect both ferrous and nonferrous metallic objects. It has an approximate investigation depth of 10 feet. The processing console is contained in a backpack worn by the operator which is

Tim McInerney National Vacuum October 3, 2010 Page 2

interfaced to a digital data logger. The transmitter and two receiver coils are located on a two-wheeled cart that is pulled by the operator.

The device's transmitter coil generates a pulsed primary EM field at a rate of 150 pulses per second, inducing eddy currents into the subsurface. The decay rates of these eddy currents are measured by two, 3.28 foot by 1.64 foot (1 meter by ½ meter) rectangular receiver coils. By taking the measurements at a relatively long time frame after termination of the primary pulse, the response is practically independent of the survey area's terrain conductivity. Specifically, the decay rates of the eddy currents are much longer for metals than for normal soils allowing the discrimination of the two.



EM61 in use (photo not from this site)

Data are collected from the EM61's two receiver coils. One of the receiver coils is located coincident to the transmitter coil. The other receiver coil is located 1.31 feet (0.4 meters) above the transmitter coil. Data from the top receiver coil are stored on Channel 1 of a digital Data from the data logger. bottom receiver coil are stored on Channel 2 of the data logger. Channel 1 and Channel 2 data are simultaneously recorded at The each station location. instrument responses are

recorded in units of milliVolts (mV). Data were recorded digitally by a data logger at a rate of approximately 2 measurements per foot along the survey lines which were spaced 5 feet apart.

3.0 RESULTS

The EM61 data for the site are shown in Figures 1 through 3. The color bar to the right of the maps indicates the colors associated with the respective measured values. Areas suspected to be free of buried metals are shown as color shades of blue. All areas exhibiting a response greater than background (0 to 40 mVolts) likely contain buried metals. These areas are depicted in shades of dark blue through yellow on the figures.

Tim McInerney National Vacuum October 3, 2010 Page 3

Figure 2 shows the geophysical data overlain with an air-photo. Figure 3 shows the geophysical data overlain with a historic site map showing UST's that was provided by the DEC.

Numerous surface and buried metal anomalies are observed on the figures and are shown in shades of yellow. Several linear anomalies, likely related to buried pipes, are shown in shades of dark blue.

Anomalies interpreted to be potentially significant are labeled A through S on the figures. These anomalies likely represent buried metal objects and are potentially UST's. Other explanations for the anomalies may be that some relate to miscellaneous buried metal objects. The airphoto (Figure 2) suggests that Anomalies in the region of "A" may be related to the footprint of a former building.

Any of the additional above background responses may be significant from an environmental perspective however they are more likely associated with miscellaneous surface or buried metals.

4.0 LIMITATIONS

The geophysical methods used during this survey are established, indirect techniques for non-destructive subsurface reconnaissance exploration. As these instruments utilize indirect methods, they are subject to inherent limitations and ambiguities. Metallic surface features (reinforced concrete pads, electrical wires, scrap metal, etc.) preclude reliable non-invasive data/results beneath, and in the immediate vicinity of, the surface features. Targets such as buried drums, buried tanks, conduits, etc. are detectable only if they produce recognizable anomalies or patterns against the background geophysical data collected. As with any remote sensing technique, the anomalies identified during a geophysical survey should be further investigated by other techniques such as historical aerial photography, test pit excavation and/or test boring, if warranted.

Tim McInerney National Vacuum October 3, 2010 Page 4

Please do not hesitate to contact us if you have any questions or require additional information.

Sincerely yours,

AMEC GEOMATRIX, INC.

John Luttinger

Senior Geophysicist

