

**SITE INVESTIGATION AND UNDERGROUND  
STORAGE TANK CLOSURE REPORT**

**FOR**

**45 EAST GENESEE STREET  
CLYDE, WAYNE COUNTY, NEW YORK  
NYSDEC SPILL No. 13-02111**

**PREPARED FOR:**

**NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION  
DIVISION OF SPILLS AND REMEDIATION  
REGION 8 OFFICE  
6274 EAST AVON-LIMA ROAD  
AVON, NEW YORK 14414**

**PREPARED BY:**

**EMPIRE GEO-SERVICES, INC.  
535 SUMMIT POINT DRIVE  
HENRIETTA, NEW YORK 14467**

**DECEMBER 3, 2013**

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## I. INTRODUCTION

Empire Geo-Services, Inc. (Empire) has prepared this report to document the results of site investigation and underground storage tank (UST) closure activities completed at the NYSDEC 45 East Genesee Street, Clyde, New York (Spill No. 13-02111) site in October and November 2013. These activities are described in the following sections.

Figure 1 is a site layout map showing relevant site features referenced in this report. Empire understands the property was previously utilized as a gasoline filling station. Fill ports to three apparent USTs could be observed on the southeast end of the site. No other site history is known to Empire.

## II. SITE INVESTIGATION

In October 2013 Empire conducted a site investigation of the property. The site investigation consisted of advancing soil borings for the purposes of evaluating the site geology and hydrogeology and qualitatively evaluating potential environmental impacts, and collecting and submitting soil samples for laboratory analysis to quantitatively evaluate environmental impacts. These activities are discussed in the following subsections.

### **Soil Borings**

On October 8, 2013, Empire conducted a site investigation of the property. The site investigation consisted of advancing 11 soil borings (SB-1 through SB-11) at the locations shown on Figure 2.

The investigation was completed in general accordance with *ASTM D6282 – Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations*. The borings were generally advanced to a depth of about 16 feet below ground surface (bgs).

At each boring location, continuous soil sampling was performed from the ground surface to the termination depth using the Geoprobe® Macro-Core (MC) soil sampler. The recovered soil

samples were visually classified by a geologist in the field and field screened with an Ion Science Model 1000 PID equipped with a 10.6 eV lamp probe assembly that was calibrated in the field at the beginning of each day utilizing isobutylene calibration gas. Individual subsurface logs were prepared presenting soil types encountered, groundwater occurrence, indications of contamination, and other pertinent observations. The individual subsurface logs are presented in Appendix A.

The only measurable PID reading occurred in the 8-9 feet below ground surface (bgs) interval of boring SB-4. The reading at this location was 0.4 parts per million (ppm). No visual or olfactory evidence of impacts were present at any of the boring locations.

The site geology consists of a thin layer of topsoil, beneath which lies sand with varying amounts of silt and gravel. Some evidence of fill material, such as bricks, is present in the shallower depths of the sandy soil. This sand extends to between about 8 and 10 feet bgs. Silt is present beneath the sand. The silt extends to the bottom of the investigated depth, which is generally around 16 feet bgs. Bedrock was not encountered at any of the boring locations. Refusal was encountered in two of the borings (SB-1 at 8.2 feet bgs and SB-10 at 9 feet bgs). This refusal was likely caused by concrete or fill-type material.

Of the 9 borings advanced to 16 feet bgs, water-saturated soil was present in four of the borings (SB-2, SB-4, SB-6, and SB-11). This saturated soil was generally present over a thickness of about 1 to 2 feet directly above the underlying silt. Soil in the remaining borings was generally observed to be moist, but not saturated. The silt underlying the sand was observed to be dry in all of the borings in which it was encountered.

### **Soil Sampling**

A total of four samples were selected and sent to TestAmerica Laboratories, Inc. (TestAmerica) in Buffalo, New York. The four samples selected were:

SB-4 (8-9')

SB-6 (8-9')

SB-8 (8-9')

SB-11 (8-9')

The SB-4 sample, located on the south side of the building was selected for analysis due to its elevated PID reading. The remaining three samples were selected as representing the remaining three sides of the building.

The samples were analyzed for the NYSDEC CP-51 Soil Cleanup Guidance document list of volatile organic compounds (VOCs) by Method 8260 and semivolatile organic compounds (SVOCs) by Method 8270. The laboratory analytical report is included in Appendix B. The results of the soil sampling are discussed in Section IV.

### **III. TEST PITS**

On October 11, 2013, Empire mobilized a backhoe to the site to excavate test pits above and adjacent to the three known USTs. The purpose of the test pits was to confirm sizes of the tanks and evaluate whether additional tanks may be present.

Testing pitting above and adjacent to the tanks confirmed that the three known USTs were approximately 4 feet in diameter and approximately 11 feet long. These dimensions correspond to a tank capacity of approximately 1,000 gallons. The western tank was observed to be completely full of water, the middle and eastern tanks were observed to be dry.

A test pit dug to the east of the eastern tank indicated there was not an additional tank located adjacent to the three known USTs.

During the test pit activities, a petroleum odor and PID reading of 135 ppm was observed in soil located near the fill port of the westernmost UST. A soil sample was collected and sent to TestAmerica and analyzed for the NYSDEC CP-51 list of VOCs by Method 8260 and SVOCs by Method 8270. The laboratory analytical report is included in Appendix B. The results of the soil sampling are discussed in Section IV.

#### **IV. SOIL SAMPLING RESULTS**

The soil sampling results for the four samples collected during the site investigation and the one sample collected during the test pitting are summarized in Table 1 (for VOCs) and Table 2 (for SVOCs). As shown in Table 1, no VOCs exceedences occurred in any of the five samples.

As shown in Table 2, seven individual SVOCs exceeded their respective soil cleanup levels as presented in the NYSDEC CP-51 Soil Cleanup Guidance document in borings SB-6 and SB-11. These individual SVOCs exceed their respective cleanup levels by factors ranging between about 2.2 and 7.5. In no instances does the measured concentration exceed the soil cleanup objective by an order of magnitude.

Figure 3 summarizes the total SVOC concentrations in the soil borings. On Figure 3, if the total SVOC concentration is presented in green, no individual SVOCs exceed their respective soil cleanup level (borings SB-4, SB-8 and the Fill Port sample). If the total SVOC concentration is presented in red, one or more individual SVOCs exceed their respective soil cleanup level (borings SB-6 and SB-11).

As shown in Figure 3, based on the locations of borings SB-6 and SB-11 and the location of the USTs, the soil in borings SB-1, SB-2, SB-5, and SB-10 potentially contain SVOC concentrations that exceed the soil cleanup levels. However, based on the lack of evidence of impacts at the time of the site investigation, samples for laboratory analysis were not collected at these locations.

#### **V. UNDERGROUND STORAGE TANK CLOSURE AND CONFIRMATION SAMPLING**

On November 7 and 8, 2013, Empire personnel closed the three site USTs through removal, cleaning, and disposal. Following the tank closure, confirmation soil samples were collected from the excavation. These activities are discussed in the following subsections.

### **UST Closure**

Prior to removing the tanks from the ground, National Vacuum (under direct contract to NYSDEC) extracted approximately 1,000 gallons of water from the western tank. Each tank was then removed from the ground. The eastern and western tanks were observed to be intact, with no holes and little or no pitting of the steel. The center tank was observed to be rusted through in a small area on the west side of the tank, but was otherwise noted to be in good condition. Each tank was cut and cleaned, and transported to Trout Auto Recycling in Waterloo, New York for recycling. The receipts for the tanks are included in Appendix C.

After collecting confirmation samples (see the following subsection), the excavation was backfilled with stockpiled materials from the excavation and clean, sandy backfill from the Syracuse Sand & Gravel pit in Fulton, New York. Following backfilling, the work area was graded to the approximate original grade.

### **Confirmation Sampling**

A total of five confirmation samples were collected following the UST closure activities. These consisted of the north sidewall, the south sidewall, east bottom, west bottom, and the stockpile. No samples were collected from the west side wall due to the proximity of soil boring SB-2 (which showed no visual or olfactory evidence of impacts, but did not have a sample for laboratory analysis collected) or the east side due to the proximity of soil boring SB-4 (which laboratory analysis indicated contained no VOCs or SVOCs at concentrations greater than the NYSDEC soil cleanup levels; see Tables 1 and 2).

The confirmation samples were sent to TestAmerica and analyzed for the NYSDEC CP-51 list of VOCs by Method 8260 and SVOCs by Method 8270. The laboratory analytical report is included in Appendix D.

The soil sampling results for the five confirmation samples are summarized in Table 3 (for VOCs) and Table 4 (for SVOCs). As shown in Table 3, no VOCs were detected in any of the five samples.

As shown in Table 4, there was one minor exceedence (by a factor of 1.1) of a single SVOC in the South Sidewall sample. No other SVOCs exceed the soil cleanup levels in any of the confirmation samples.

## **VI. SUMMARY OF CURRENT SITE CONDITIONS**

Samples collected during the site investigation and tank closure have indicated that there are no VOC impacts in the site soil. This data is summarized in Tables 1 and 3.

The current site conditions with regard to SVOC impacts are summarized in Tables 2 and 4. Total SVOC concentrations from both the site investigation and UST closure sampling are presented on Figure 4 (note that boring locations SB-7 and SB-9, which are assumed to be non-impacted, and SB-8 which was shown to be non-impacted by laboratory analysis are not shown for clarity). On Figure 4, if the total SVOC concentration is presented in green, no individual SVOCs exceed their respective soil cleanup level. If the total SVOC concentration is presented in red, one or more individual SVOCs exceed their respective soil cleanup level.

Relatively elevated SVOC impacts are present at the locations of borings SB-6 and SB-11. The soil in borings SB-1, SB-2, SB-5, and SB-10 potentially contain SVOC concentrations that exceed the soil cleanup levels, however this has not been documented through laboratory sampling. One minor exceedence of a single SVOC is present in the South Sidewall sample.

It should be noted that the soil cleanup levels presented in the CP-51 Soil Cleanup Guidance are equivalent to the Unrestricted Use soil cleanup objectives presented in Table 375-6.8(a) of NYSDEC 6 NYCRR Part 375, Environmental Remediation Programs (Part 375). Part 375 also includes Restricted Use soil cleanup objectives for “Residential”, “Restricted-Residential”, “Commercial”, and “Industrial” settings. Depending on the planned future use of the site, it may be more appropriate to apply one of these less stringent cleanup objectives.



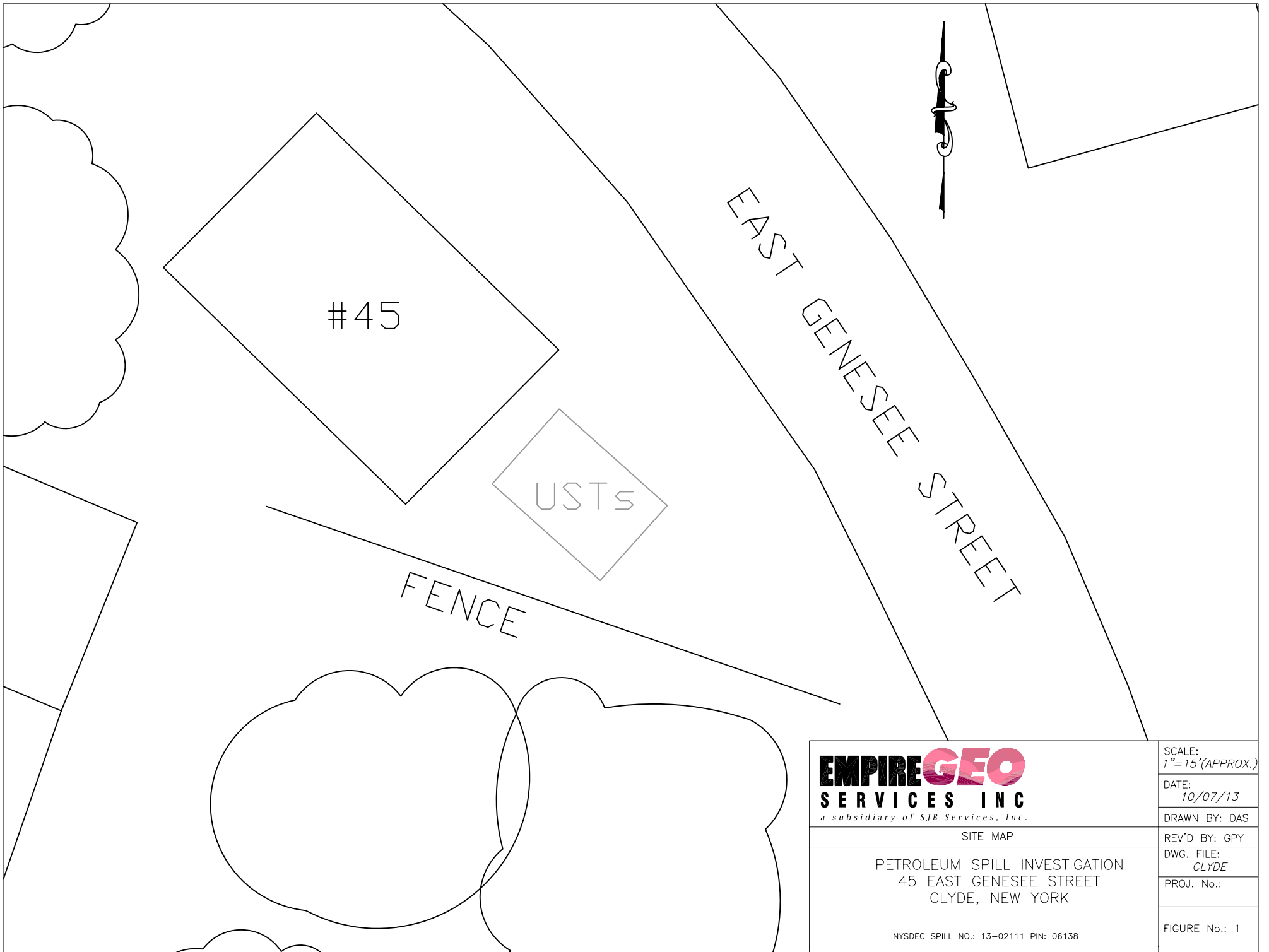
For example, Table 5 compares all of the laboratory analytical samples for SVOCs to the Commercial soil cleanup objectives presented in Table 375-6.8(b) of Part 375. Using the Commercial soil cleanup objectives instead of the CP-51 soil cleanup levels results in the following:

- The exceedence for benzo(b)fluoranthene in the South Sidewall confirmation sample is eliminated;
- The exceedences for benzo(k)fluoranthene, chrysene, and ideno(1,2,3-cd) pyrene in soil borings SB-6 and SB-11 are eliminated; and,
- Four individual SVOCs still exceed their respective soil cleanup objectives in soil borings SB-6 and SB-11. However, the magnitude of these exceedences now range from about 1.2 to 5.6 times the Commercial cleanup objective, compared to 2.2 to 7.5 times the Unrestricted Use cleanup objective.

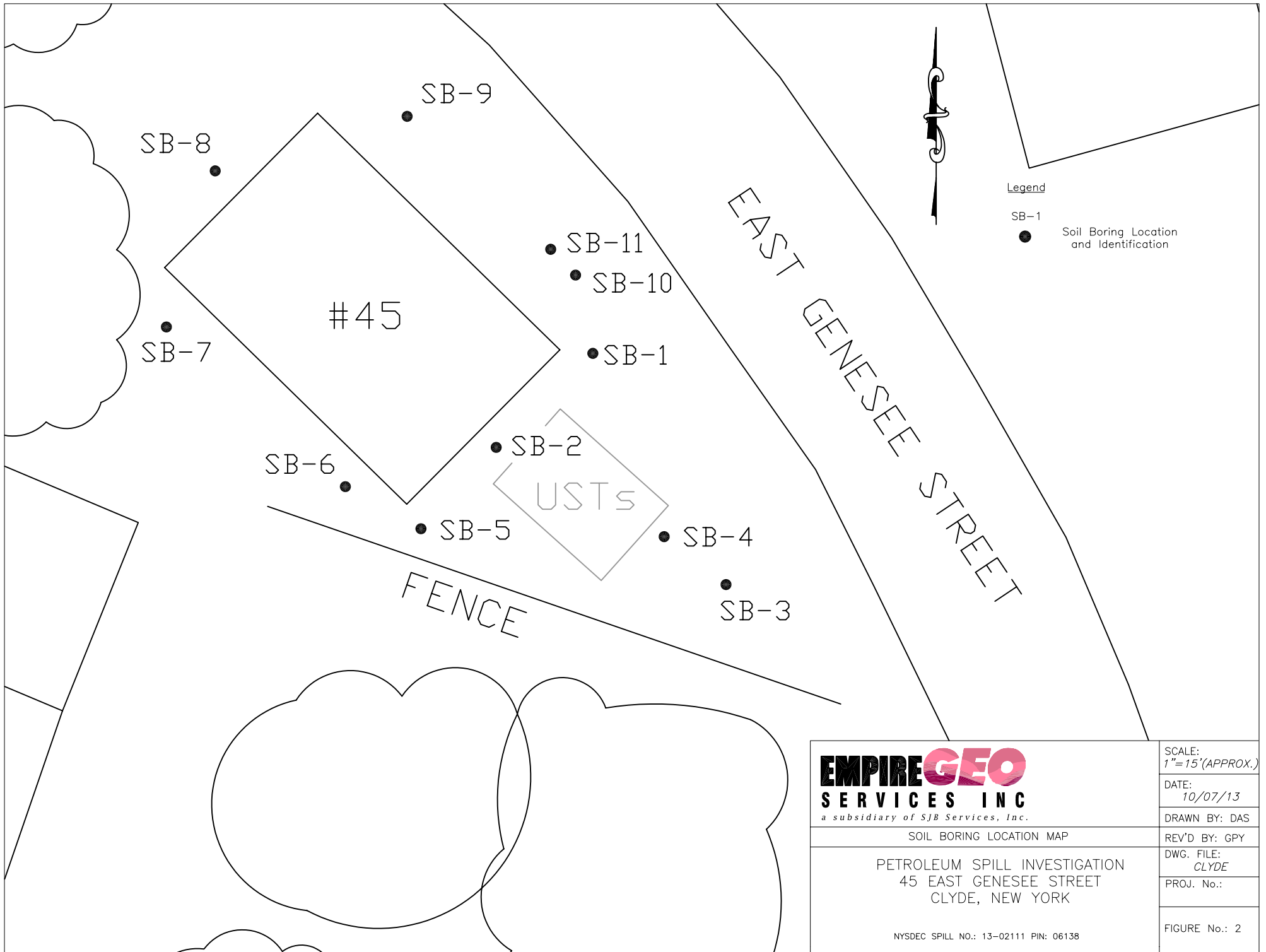
## **VII. FUTURE ACTIVITIES**

No site activities are currently planned. Future site activities will be conducted at the direction of NYSDEC.

## **FIGURES**



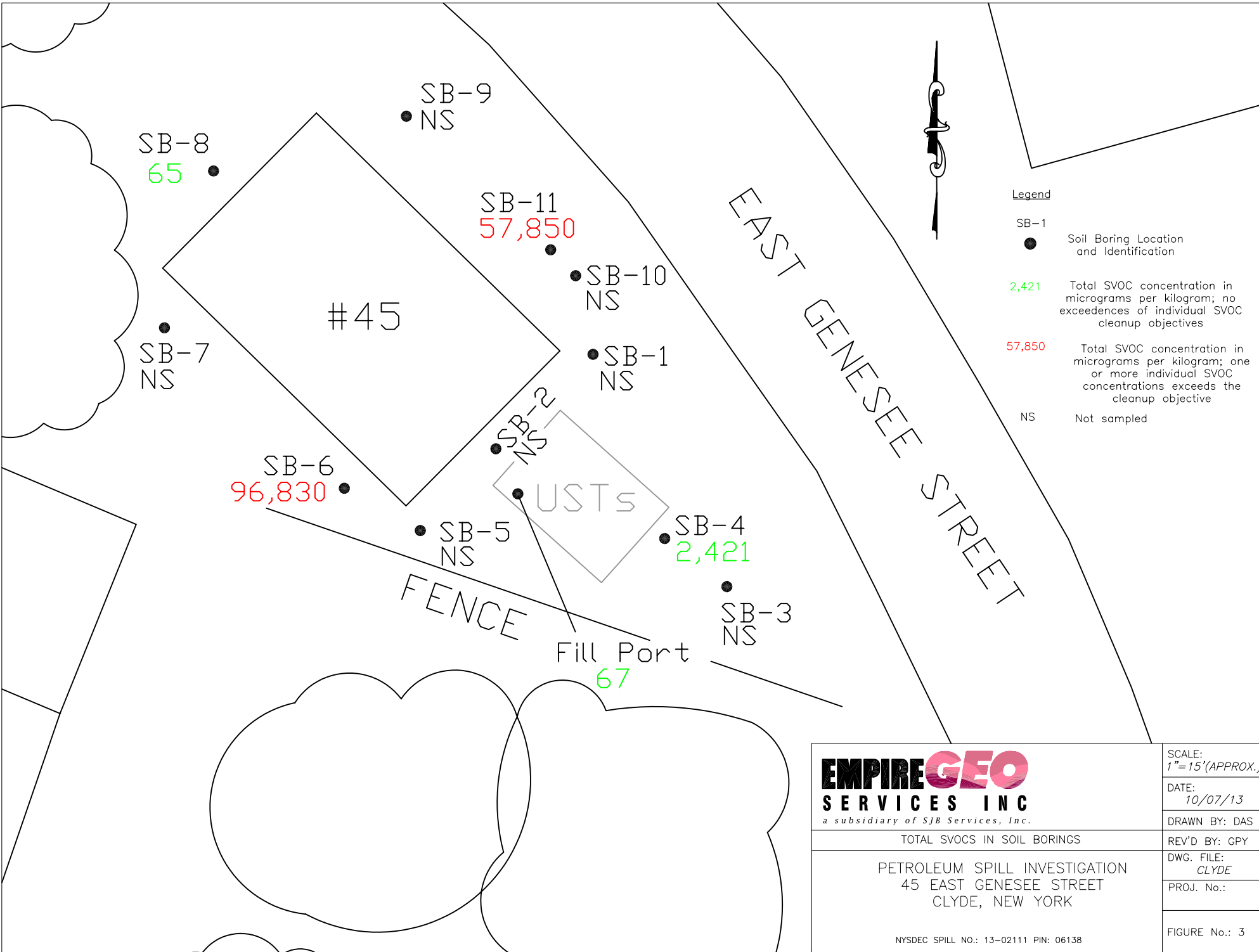
<b>EMPIRE</b> <b>SERVICES INC</b> <i>a subsidiary of SJB Services, Inc.</i>	SCALE: 1"=15'(APPROX.)
	DATE: 10/07/13
SITE MAP	DRAWN BY: DAS
	REV'D BY: GPY
PETROLEUM SPILL INVESTIGATION 45 EAST GENESEE STREET CLYDE, NEW YORK	DWG. FILE: CLYDE
	PROJ. No.:
NYSDEC SPILL NO.: 13-02111 PIN: 06138	FIGURE No.: 1



Legend

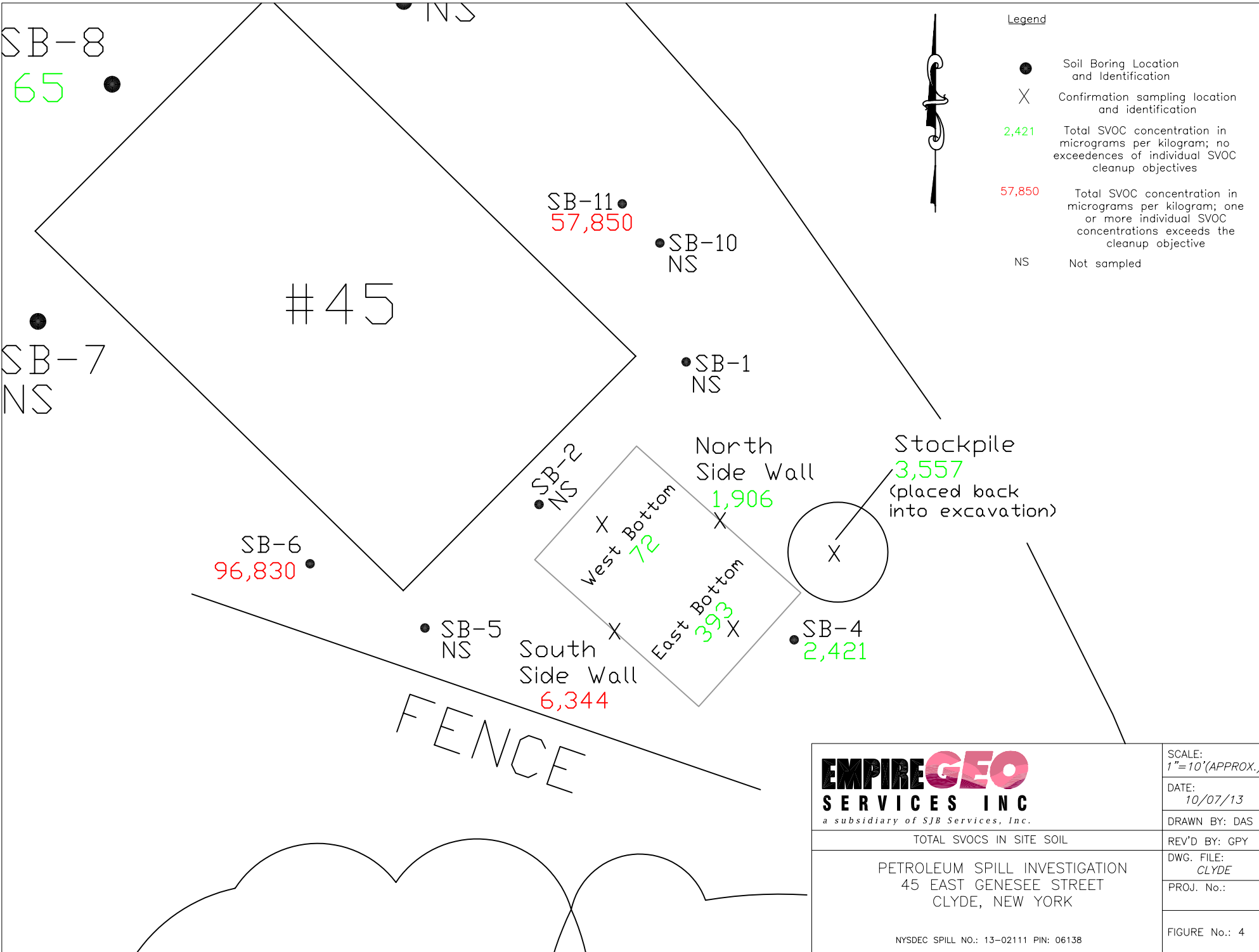
- SB-1 Soil Boring Location and Identification

<b>EMPIRE GEO</b> <b>SERVICES INC</b> <i>a subsidiary of SJB Services, Inc.</i>	SCALE: 1"=15'(APPROX.)
	DATE: 10/07/13
SOIL BORING LOCATION MAP	DRAWN BY: DAS
	REV'D BY: GPY
PETROLEUM SPILL INVESTIGATION 45 EAST GENESEE STREET CLYDE, NEW YORK	DWG. FILE: CLYDE
	PROJ. No.:
NYSDEC SPILL NO.: 13-02111 PIN: 06138	FIGURE No.: 2



- Legend**
- SB-1  
● Soil Boring Location and Identification
  - 2,421  
Total SVOC concentration in micrograms per kilogram; no exceedences of individual SVOC cleanup objectives
  - 57,850  
Total SVOC concentration in micrograms per kilogram; one or more individual SVOC concentrations exceeds the cleanup objective
  - NS  
Not sampled

 a subsidiary of SJB Services, Inc.	SCALE: 1"=15'(APPROX.)
	DATE: 10/07/13
TOTAL SVOCs IN SOIL BORINGS  PETROLEUM SPILL INVESTIGATION 45 EAST GENESEE STREET CLYDE, NEW YORK  NYSDEC SPILL NO.: 13-02111 PIN: 06138	DRAWN BY: DAS
	REV'D BY: GPY
	DWG. FILE: CLYDE
	PROJ. No.:
	FIGURE No.: 3



- Legend**
- Soil Boring Location and Identification
  - X Confirmation sampling location and identification
  - 2,421 Total SVOC concentration in micrograms per kilogram; no exceedences of individual SVOC cleanup objectives
  - 57,850 Total SVOC concentration in micrograms per kilogram; one or more individual SVOC concentrations exceeds the cleanup objective
  - NS Not sampled

<b>EMPIRE GEO SERVICES INC</b> <small>a subsidiary of SJB Services, Inc.</small>	SCALE: 1"=10'(APPROX.)
	DATE: 10/07/13
<b>TOTAL SVOCs IN SITE SOIL</b>  PETROLEUM SPILL INVESTIGATION 45 EAST GENESEE STREET CLYDE, NEW YORK	DRAWN BY: DAS
	REV'D BY: GPY
NYSDEC SPILL NO.: 13-02111 PIN: 06138	DWG. FILE: CLYDE
	PROJ. No.:
	FIGURE No.: 4

## **TABLES**

**TABLE 1**  
**VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN SOIL BORINGS**  
**45 East Genesee Street, Clyde, New York**  
**NYSDEC Spill No. 13-02111**

Analyte	CP-51 Soil Cleanup Level	SB-4 (8-9)	SB-6 (8-9')	SB-8 (8-9')	SB-11 (8-9')	Fill Port
PID reading	No Std.	0.4	0	0	0	135
1,2,4-Trimethylbenzene	3,600	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	ND	ND	ND	ND	ND
4-Isopropyltoluene	10,000	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	ND	ND	ND	ND	ND
Total Xylenes	260	ND	ND	ND	ND	1.1
Methyl tertiarybutyl ether	930	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND
Toluene	700	ND	ND	ND	ND	ND
Total VOCs	No Std.	0	0	0	0	1.1

**Notes:**

All results are reported in micrograms per kilogram

ND = Not detected



**TABLE 2**  
**SEMIVOLATILE ORGANIC COMPOUND CONCENTRATIONS IN SOIL BORINGS**  
**45 East Genesee Street, Clyde, New York**  
**NYSDEC Spill No. 13-02111**

Analyte	CP-51 Soil Cleanup Level	SB-4 (8-9)	SB-6 (8-9')	SB-8 (8-9')	SB-11 (8-9')	Fill Port
PID Reading	No Std.	0.4	0	0	0	135
Acenaphthene	20,000	61	2,900	ND	430	21
Acenaphthylene	100,000	ND	310	ND	1,100	ND
Anthracene	100,000	110	6,100	ND	1,400	16
Benzo(a)anthracene	1,000	270	7,500	ND	6,000	ND
Benzo(a)pyrene	1,000	ND	5,100	8.2	5,600	ND
Benzo(b)fluoranthene	1,000	ND	6,500	9.0	7,100	ND
Benzo(g,h,i)perylene	100,000	ND	1,800	ND	2,500	ND
Benzo(k)fluoranthene	800	ND	2,500	9.9	3,600	ND
Chrysene	1,000	250	6,900	11	5,900	ND
Dibenzo(a,h)anthracene	330	ND	720	ND	770	ND
Fluoranthene	100,000	540	17,000	11	12,000	8.7
Fluorene	30,000	ND	2,800	ND	600	ND
Ideno(1,2,3-cd)pyrene	500	ND	1,500	7.7	2,300	ND
Naphthalene	12,000	120	2,200	ND	200	ND
Phenanthrene	100,000	500	22,000	ND	550	21
Pyrene	100,000	570	11,000	7.8	8,700	ND
<b>Total SVOCs</b>	No Std.	2,421	96,830	65	58,750	67

**Notes:**

All results are reported in micrograms per kilogram  
Yellow shading indicates the value exceeds the cleanup level  
ND = Not detected

**TABLE 3**  
**VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN CONFIRMATION SAMPLES**  
**45 East Genesee Street, Clyde, New York**  
**NYSDEC Spill No. 13-02111**

Analyte	CP-51 Soil Cleanup Level	North Side Wall	South Side Wall	West Bottom	East Bottom	Stockpile
PID reading	No Std.	0	0	0	0	0
1,2,4-Trimethylbenzene	3,600	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	8,400	ND	ND	ND	ND	ND
4-Isopropyltoluene	10,000	ND	ND	ND	ND	ND
Benzene	60	ND	ND	ND	ND	ND
Ethylbenzene	1,000	ND	ND	ND	ND	ND
Isopropylbenzene	2,300	ND	ND	ND	ND	ND
Total Xylenes	260	ND	ND	ND	ND	ND
Methyl tertiarybutyl ether	930	ND	ND	ND	ND	ND
n-Butylbenzene	12,000	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND
Naphthalene	12,000	ND	ND	ND	ND	ND
sec-Butylbenzene	11,000	ND	ND	ND	ND	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND
Toluene	700	ND	ND	ND	ND	ND
Total VOCs	No Std.	0	0	0	0	0

**Notes:**

All results are reported in micrograms per kilogram

ND = Not detected

**TABLE 4**  
**SEMIVOLATILE ORGANIC COMPOUND CONCENTRATIONS IN CONFIRMATION SAMPLES**  
**45 East Genesee Street, Clyde, New York**  
**NYSDEC Spill No. 13-02111**

Analyte	CP-51 Soil Cleanup Level	North Side Wall	South Side Wall	West Bottom	East Bottom	Stockpile
PID Reading	No Std.	0	0	0	0	0
Acenaphthene	20,000	11	22	ND	ND	17
Acenaphthylene	100,000	ND	27	ND	ND	33
Anthracene	100,000	42	100	ND	ND	60
Benzo(a)anthracene	1,000	190	610	ND	9.1	370
Benzo(a)pyrene	1,000	160	750	7.8	42	340
Benzo(b)fluoranthene	1,000	190	1,100	16	61	540
Benzo(g,h,i)perylene	100,000	62	210	ND	11	81
Benzo(k)fluoranthene	800	94	440	6.9	30	220
Chrysene	1,000	180	630	11	50	360
Dibenzo(a,h)anthracene	330	25	85	ND	ND	ND
Fluoranthene	100,000	380	870	17	82	630
Fluorene	30,000	13	20	ND	ND	20
Ideno(1,2,3-cd)pyrene	500	59	210	ND	11	86
Naphthalene	12,000	ND	180	ND	ND	ND
Phenanthrene	100,000	220	370	ND	40	340
Pyrene	100,000	280	720	13	57	460
<b>Total SVOCs</b>	No Std.	1,906	6,344	72	393	3,557

**Notes:**

All results are reported in micrograms per kilogram

Yellow shading indicates the value exceeds the cleanup level

ND = Not detected

**TABLE 5**  
**SEMIVOLATILE ORGANIC COMPOUND CONCENTRATIONS IN SOIL - COMMERCIAL CLEANUP OBJECTIVES**  
**45 East Genesee Street, Clyde, New York**  
**NYSDEC Spill No. 13-02111**

Analyte	Commercial Cleanup Objective	SB-4 (8-9)	SB-6 (8-9')	SB-8 (8-9')	SB-11 (8-9')	Fill Port	North Side Wall	South Side Wall	West Bottom	East Bottom	Stockpile
Acenaphthene	500,000	61	2,900	ND	430	21	11	22	ND	ND	17
Acenaphthylene	500,000	ND	310	ND	1,100	ND	ND	27	ND	ND	33
Anthracene	500,000	110	6,100	ND	1,400	16	42	100	ND	ND	60
Benzo(a)anthracene	5,600	270	7,500	ND	6,000	ND	190	610	ND	9.1	370
Benzo(a)pyrene	1,000	ND	5,100	8.2	5,600	ND	160	750	7.8	42	340
Benzo(b)fluoranthene	5,600	ND	6,500	9.0	7,100	ND	190	1,100	16	61	540
Benzo(g,h,i)perylene	500,000	ND	1,800	ND	2,500	ND	62	210	ND	11	81
Benzo(k)fluoranthene	56,000	ND	2,500	9.9	3,600	ND	94	440	6.9	30	220
Chrysene	56,000	250	6,900	11	5,900	ND	180	630	11	50	360
Dibenzo(a,h)anthracene	560	ND	720	ND	770	ND	25	85	ND	ND	ND
Fluoranthene	500,000	540	17,000	11	12,000	8.7	380	870	17	82	630
Fluorene	500,000	ND	2,800	ND	600	ND	13	20	ND	ND	20
Ideno(1,2,3-cd)pyrene	5,600	ND	1,500	7.7	2,300	ND	59	210	ND	11	86
Naphthalene	500,000	120	2,200	ND	200	ND	ND	180	ND	ND	ND
Phenanthrene	500,000	500	22,000	ND	550	21	220	370	ND	40	340
Pyrene	500,000	570	11,000	7.8	8,700	ND	280	720	13	57	460
<b>Total SVOCs</b>	No Std.	2,421	96,830	65	58,750	67	1,906	6,344	72	393	3,557

**Notes:**

All results are reported in micrograms per kilogram

Yellow shading indicates the value exceeds the cleanup level

ND = Not detected

**APPENDIX A**  
**Soil Boring Logs**

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-1  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
	1	0	Topsoil (0-0.2')	
4		0	Brown SILTY SAND, some gravel, moist, no odor	
	2	0		
8		0	Gray SAND, with gravel, dry, no odor (concrete?)	
	3	0		
12			Refusal at 8.2 feet bgs	
16				
20				
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-2  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SAMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SAND, trace-little silt, trace gravel, moist, no odor	
8	2		Brown SILT, dry, no odor	
		0	Brown SILTY SAND, moist, no odor	
12	3		becomes wet	
		0	Dark brown CLAYEY SILT, little fine sand, moist to wet, no odor	
16			Red SILT, dry, no odor	
	4			
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-3  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SAND, trace-little silt, gravel, and brick, moist, no odor	
8	2			
		0		
12	3		Red SILT, dry, no odor	
		0		
16	4		(no recovery)	
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_



DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-4  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
	1		Topsoil (0-0.2')	
		0	Brown SILTY SAND, trace gravel, moist, no odor	
4	2		brick layer	
		0		
8	3	0.4	Brown SAND, trace gravel, wet, no odor	
		0	Red SILT, dry, no odor	
12	4			
		0		
16			End of boring	
20				
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-5  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
	1	0	Topsoil (0-0.2')	
		0	Brown SAND, with silt, trace gravel and brick, moist, no odor	
4				
	2	0		
8				
	3	0	Red SILT, dry, no odor	
12				
	4	0		
16				
			End of boring	
20				
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-6  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown-gray SAND, trace to little silt, dry, no odor	
8	2		moist	
		0		
12	3		Brown SAND, wet, no odor	
		0	Red SILT, dry, no odor	
16	4			
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-7  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SAND, with gravel, little silt, dry, no odor	
8	2		moist	
		0		
12	3		Brown SILTY SAND, moist, no odor	
		0	Red SILT, dry, no odor	
16	4			
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-8  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SILTY SAND, dry, no odor	
			Gray SAND, dry, no odor	
8	2		Brown SILTY SAND, dry, no odor	
		0		
12	3		moist	
		0	Red SILT, dry, no odor	
16	4			
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-9  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SAMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown-gray SAND, little silt, dry, no odor	
			Dark brown SILTY SAND, moist, no odor	
8	2			
		0		
12	3		wet	
		0	Black SANDY SILT, moist, no odor	
			Red SILT, dry, no odor	
16	4			
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-10  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SAMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SAND, little silt, trace gravel, moist, no odor	
8	2			
		0		
12	3	0	Concrete	
			Refusal at 9 feet bgs	
16				
20				
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_

DATE:  
 STARTED 10/08/13  
 FINISHED 10/08/13  
 SHEET 1 OF 1

**DIRECT PUSH SAMPLING  
 SUBSURFACE LOG**



HOLE NO. SB-11  
 SURF. ELEV. \_\_\_\_\_  
 G.W. DEPTH \_\_\_\_\_

PROJECT: NYSDEC Region 8 LOCATION: 45 East Genesee Street  
 PROJ. NO.: Spill No. 13-02111 Clyde, New York

DEPTH FT.	SMPL NO.	PID (ppm)	SOIL OR ROCK CLASSIFICATION	NOTES
4	1		Topsoil (0-0.2')	
		0	Brown SAND, with silt and gravel	
			Brown SILT, moist, no odor	
8	2			
		0		
12	3		Brown SAND, trace silt and gravel, wet, no odor	
		0	Red SILT, dry, no odor	
16	4			
		0		
20			End of boring	
24				
28				
32			Empire's on site Geologist utilized an Ion Science Phocheck 1000 photoionization detector (PID) , equipped with 10.6eV light source, expressed in parts-per-million (ppm)	
36			BKG=Background (<0.1ppm)	
40				

DRILLER: \_\_\_\_\_  
 METHOD OF INVESTIGATION Direct Push Sampling

DRILL RIG TYPE : \_\_\_\_\_

CLASSIFIED BY: \_\_\_\_\_



**APPENDIX B**  
**Laboratory Analytical Reports for Soil Borings**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-47593-1

Client Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

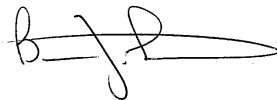
For:

New York State D.E.C.

6274 E. Avon-Lima Rd.

Avon, New York 14414

Attn: Joe Marchitell



Authorized for release by:

10/21/2013 11:45:32 AM

Brian Fischer, Project Manager II

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

1

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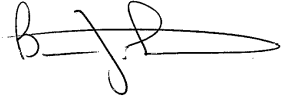
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11

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- 10
- 11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



---

Brian Fischer  
Project Manager II  
10/21/2013 11:45:32 AM



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## Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

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## Job ID: 480-47593-1

---

### Laboratory: TestAmerica Buffalo

#### Narrative

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#### Job Narrative 480-47593-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 10/9/2013 4:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

Except:

The Chain of Custody was received without a specified TAT listed.

#### GC/MS VOA

Method(s) 8260C: Reported analyte concentrations in the following sample(s) are below 200ug/kg and may be biased low due to the sample(s) not being collected according to 5035-L/5035A-L low-level specifications: (480-47593-4 MS), (480-47593-4 MSD), SB-11 (8-9') (480-47593-4), SB-4 (8-9') (480-47593-1), SB-6 (8-9') (480-47593-2), SB-8 (8-9') (480-47593-3).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 146126 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

#### GC/MS Semi VOA

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: SB-11 (8-9') (480-47593-4), SB-6 (8-9') (480-47593-2). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: SB-4 (8-9') (480-47593-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: Due to matrix interference, internal standard response for the following samples exceeded the lower control limit: SB-4 (8-9') (480-47593-1). As such, the sample results may be biased high. The analytes associated with the failing internal standard were below the reporting limit, therefore the data has been qualified and reported.

No other analytical or quality issues were noted.

#### Organic Prep

No analytical or quality issues were noted.

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

**Client Sample ID: SB-4 (8-9')**

**Lab Sample ID: 480-47593-1**

Date Collected: 10/08/13 11:00

Matrix: Solid

Date Received: 10/09/13 16:20

Percent Solids: 92.9

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.3	0.26	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Ethylbenzene	ND		5.3	0.37	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Toluene	ND		5.3	0.40	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
m-Xylene & p-Xylene	ND		11	0.90	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
o-Xylene	ND		5.3	0.70	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Isopropylbenzene	ND		5.3	0.81	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
N-Propylbenzene	ND		5.3	0.43	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
4-Isopropyltoluene	ND		5.3	0.43	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
1,2,4-Trimethylbenzene	ND		5.3	1.0	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
1,3,5-Trimethylbenzene	ND		5.3	0.34	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
n-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
sec-Butylbenzene	ND		5.3	0.46	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Naphthalene	ND		5.3	0.72	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
Methyl tert-butyl ether	ND		5.3	0.52	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1
tert-Butylbenzene	ND		5.3	0.56	ug/Kg	☼	10/18/13 12:07	10/19/13 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 126	10/18/13 12:07	10/19/13 18:40	1
Toluene-d8 (Surr)	101		71 - 125	10/18/13 12:07	10/19/13 18:40	1
4-Bromofluorobenzene (Surr)	102		72 - 126	10/18/13 12:07	10/19/13 18:40	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	61	J	1800	21	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Acenaphthylene	ND		1800	15	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Anthracene	110	J	1800	46	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Benzo(a)anthracene	270	J*	1800	31	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Benzo(a)pyrene	ND	*	1800	43	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Benzo(b)fluoranthene	ND	*	1800	35	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Benzo(g,h,i)perylene	ND	*	1800	21	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Benzo(k)fluoranthene	ND	*	1800	20	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Chrysene	250	J*	1800	18	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Dibenz(a,h)anthracene	ND	*	1800	21	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Fluoranthene	540	J	1800	26	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Fluorene	ND		1800	41	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Indeno(1,2,3-cd)pyrene	ND	*	1800	50	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Naphthalene	120	J	1800	30	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Phenanthrene	500	J	1800	38	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10
Pyrene	570	J*	1800	12	ug/Kg	☼	10/15/13 10:48	10/16/13 15:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	69		39 - 146	10/15/13 10:48	10/16/13 15:24	10
2-Fluorophenol	78		18 - 120	10/15/13 10:48	10/16/13 15:24	10
2-Fluorobiphenyl	86		37 - 120	10/15/13 10:48	10/16/13 15:24	10
Phenol-d5	82		11 - 120	10/15/13 10:48	10/16/13 15:24	10
p-Terphenyl-d14	111	*	65 - 153	10/15/13 10:48	10/16/13 15:24	10
Nitrobenzene-d5	71		34 - 132	10/15/13 10:48	10/16/13 15:24	10

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

**Client Sample ID: SB-6 (8-9')**

**Lab Sample ID: 480-47593-2**

Date Collected: 10/08/13 11:45

Matrix: Solid

Date Received: 10/09/13 16:20

Percent Solids: 79.1

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.3	0.31	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Ethylbenzene	ND		6.3	0.43	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Toluene	ND		6.3	0.47	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
o-Xylene	ND		6.3	0.82	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Isopropylbenzene	ND		6.3	0.95	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
N-Propylbenzene	ND		6.3	0.50	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
4-Isopropyltoluene	ND		6.3	0.50	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
1,2,4-Trimethylbenzene	ND		6.3	1.2	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
1,3,5-Trimethylbenzene	ND		6.3	0.40	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
n-Butylbenzene	ND		6.3	0.55	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
sec-Butylbenzene	ND		6.3	0.55	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Naphthalene	ND		6.3	0.84	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Methyl tert-butyl ether	ND		6.3	0.62	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
tert-Butylbenzene	ND		6.3	0.65	ug/Kg	☼	10/18/13 12:07	10/19/13 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				10/18/13 12:07	10/19/13 19:06	1
Toluene-d8 (Surr)	101		71 - 125				10/18/13 12:07	10/19/13 19:06	1
4-Bromofluorobenzene (Surr)	102		72 - 126				10/18/13 12:07	10/19/13 19:06	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	2900		2100	25	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Acenaphthylene	310	J	2100	17	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Anthracene	6100		2100	54	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Benzo(a)anthracene	7500		2100	37	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Benzo(a)pyrene	5100		2100	51	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Benzo(b)fluoranthene	6500		2100	41	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Benzo(g,h,i)perylene	1800	J	2100	25	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Benzo(k)fluoranthene	2500		2100	23	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Chrysene	6900		2100	21	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Dibenz(a,h)anthracene	720	J	2100	25	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Fluoranthene	17000		2100	31	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Fluorene	2800		2100	49	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Indeno(1,2,3-cd)pyrene	1500	J	2100	59	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Naphthalene	2200		2100	35	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Phenanthrene	22000		2100	44	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Pyrene	11000		2100	14	ug/Kg	☼	10/11/13 15:22	10/14/13 16:50	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	70		39 - 146				10/11/13 15:22	10/14/13 16:50	10
2-Fluorophenol	79		18 - 120				10/11/13 15:22	10/14/13 16:50	10
2-Fluorobiphenyl	94		37 - 120				10/11/13 15:22	10/14/13 16:50	10
Phenol-d5	83		11 - 120				10/11/13 15:22	10/14/13 16:50	10
p-Terphenyl-d14	86		65 - 153				10/11/13 15:22	10/14/13 16:50	10
Nitrobenzene-d5	74		34 - 132				10/11/13 15:22	10/14/13 16:50	10

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

**Client Sample ID: SB-8 (8-9')**

**Lab Sample ID: 480-47593-3**

Date Collected: 10/08/13 12:35

Matrix: Solid

Date Received: 10/09/13 16:20

Percent Solids: 87.9

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.7	0.28	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Ethylbenzene	ND		5.7	0.39	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Toluene	ND		5.7	0.43	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
m-Xylene & p-Xylene	ND		11	0.95	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
o-Xylene	ND		5.7	0.74	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Xylenes, Total	ND		11	0.95	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Isopropylbenzene	ND		5.7	0.86	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
N-Propylbenzene	ND		5.7	0.45	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
4-Isopropyltoluene	ND		5.7	0.46	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
1,2,4-Trimethylbenzene	ND		5.7	1.1	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
1,3,5-Trimethylbenzene	ND		5.7	0.37	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
n-Butylbenzene	ND		5.7	0.49	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
sec-Butylbenzene	ND		5.7	0.49	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Naphthalene	ND		5.7	0.76	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
Methyl tert-butyl ether	ND		5.7	0.56	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1
tert-Butylbenzene	ND		5.7	0.59	ug/Kg	☼	10/18/13 12:07	10/19/13 19:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 126	10/18/13 12:07	10/19/13 19:32	1
Toluene-d8 (Surr)	98		71 - 125	10/18/13 12:07	10/19/13 19:32	1
4-Bromofluorobenzene (Surr)	99		72 - 126	10/18/13 12:07	10/19/13 19:32	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	2.2	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Anthracene	ND		190	4.8	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Benzo(a)anthracene	ND		190	3.2	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Benzo(a)pyrene</b>	<b>8.2</b>	<b>J</b>	190	4.5	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Benzo(b)fluoranthene</b>	<b>9.0</b>	<b>J</b>	190	3.6	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Benzo(g,h,i)perylene	ND		190	2.3	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Benzo(k)fluoranthene</b>	<b>9.9</b>	<b>J</b>	190	2.1	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Chrysene</b>	<b>11</b>	<b>J</b>	190	1.9	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Fluoranthene</b>	<b>11</b>	<b>J</b>	190	2.7	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Fluorene	ND		190	4.3	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>7.7</b>	<b>J</b>	190	5.2	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Naphthalene	ND		190	3.1	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
Phenanthrene	ND		190	3.9	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1
<b>Pyrene</b>	<b>7.8</b>	<b>J</b>	190	1.2	ug/Kg	☼	10/11/13 15:22	10/14/13 17:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	97		39 - 146	10/11/13 15:22	10/14/13 17:15	1
2-Fluorophenol	87		18 - 120	10/11/13 15:22	10/14/13 17:15	1
2-Fluorobiphenyl	97		37 - 120	10/11/13 15:22	10/14/13 17:15	1
Phenol-d5	91		11 - 120	10/11/13 15:22	10/14/13 17:15	1
p-Terphenyl-d14	98		65 - 153	10/11/13 15:22	10/14/13 17:15	1
Nitrobenzene-d5	84		34 - 132	10/11/13 15:22	10/14/13 17:15	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

**Client Sample ID: SB-11 (8-9')**

**Lab Sample ID: 480-47593-4**

Date Collected: 10/08/13 13:55

Matrix: Solid

Date Received: 10/09/13 16:20

Percent Solids: 73.6

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		6.7	0.33	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Ethylbenzene	ND		6.7	0.46	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Toluene	ND		6.7	0.51	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
m-Xylene & p-Xylene	ND		13	1.1	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
o-Xylene	ND		6.7	0.88	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Xylenes, Total	ND		13	1.1	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Isopropylbenzene	ND		6.7	1.0	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
N-Propylbenzene	ND		6.7	0.54	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
4-Isopropyltoluene	ND		6.7	0.54	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
1,2,4-Trimethylbenzene	ND		6.7	1.3	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
1,3,5-Trimethylbenzene	ND		6.7	0.43	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
n-Butylbenzene	ND		6.7	0.59	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
sec-Butylbenzene	ND		6.7	0.59	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Naphthalene	ND		6.7	0.90	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Methyl tert-butyl ether	ND		6.7	0.66	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
tert-Butylbenzene	ND		6.7	0.70	ug/Kg	☼	10/18/13 12:07	10/19/13 19:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 126				10/18/13 12:07	10/19/13 19:57	1
Toluene-d8 (Surr)	99		71 - 125				10/18/13 12:07	10/19/13 19:57	1
4-Bromofluorobenzene (Surr)	100		72 - 126				10/18/13 12:07	10/19/13 19:57	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	430	J	1100	13	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Acenaphthylene	1100		1100	9.3	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Anthracene	1400		1100	29	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Benzo(a)anthracene	6000		1100	20	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Benzo(a)pyrene	5600		1100	27	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Benzo(b)fluoranthene	7100		1100	22	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Benzo(g,h,i)perylene	2500		1100	14	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Benzo(k)fluoranthene	3600		1100	13	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Chrysene	5900		1100	11	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Dibenz(a,h)anthracene	770	J	1100	13	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Fluoranthene	12000		1100	16	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Fluorene	600	J	1100	26	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Indeno(1,2,3-cd)pyrene	2300		1100	31	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Naphthalene	200	J	1100	19	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Phenanthrene	5500		1100	24	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Pyrene	8700		1100	7.4	ug/Kg	☼	10/11/13 15:22	10/14/13 17:40	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	83		39 - 146				10/11/13 15:22	10/14/13 17:40	5
2-Fluorophenol	83		18 - 120				10/11/13 15:22	10/14/13 17:40	5
2-Fluorobiphenyl	91		37 - 120				10/11/13 15:22	10/14/13 17:40	5
Phenol-d5	87		11 - 120				10/11/13 15:22	10/14/13 17:40	5
p-Terphenyl-d14	89		65 - 153				10/11/13 15:22	10/14/13 17:40	5
Nitrobenzene-d5	81		34 - 132				10/11/13 15:22	10/14/13 17:40	5

TestAmerica Buffalo

# Lab Chronicle

Client: New York State D.E.C.  
 Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

## Client Sample ID: SB-4 (8-9')

Date Collected: 10/08/13 11:00

Date Received: 10/09/13 16:20

## Lab Sample ID: 480-47593-1

Matrix: Solid  
 Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145963	10/18/13 12:07	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	146126	10/19/13 18:40	CDC	TAL BUF
Total/NA	Prep	3550C			144976	10/15/13 10:48	CAM	TAL BUF
Total/NA	Analysis	8270D		10	145199	10/16/13 15:24	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	144467	10/11/13 21:32	GTG	TAL BUF

## Client Sample ID: SB-6 (8-9')

Date Collected: 10/08/13 11:45

Date Received: 10/09/13 16:20

## Lab Sample ID: 480-47593-2

Matrix: Solid  
 Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145963	10/18/13 12:07	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	146126	10/19/13 19:06	CDC	TAL BUF
Total/NA	Prep	3550C			144428	10/11/13 15:22	JRL	TAL BUF
Total/NA	Analysis	8270D		10	144681	10/14/13 16:50	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	144165	10/11/13 00:33	GTG	TAL BUF

## Client Sample ID: SB-8 (8-9')

Date Collected: 10/08/13 12:35

Date Received: 10/09/13 16:20

## Lab Sample ID: 480-47593-3

Matrix: Solid  
 Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145963	10/18/13 12:07	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	146126	10/19/13 19:32	CDC	TAL BUF
Total/NA	Prep	3550C			144428	10/11/13 15:22	JRL	TAL BUF
Total/NA	Analysis	8270D		1	144681	10/14/13 17:15	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	144165	10/11/13 00:33	GTG	TAL BUF

## Client Sample ID: SB-11 (8-9')

Date Collected: 10/08/13 13:55

Date Received: 10/09/13 16:20

## Lab Sample ID: 480-47593-4

Matrix: Solid  
 Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			145963	10/18/13 12:07	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	146126	10/19/13 19:57	CDC	TAL BUF
Total/NA	Prep	3550C			144428	10/11/13 15:22	JRL	TAL BUF
Total/NA	Analysis	8270D		5	144681	10/14/13 17:40	HTL	TAL BUF
Total/NA	Analysis	Moisture		1	144165	10/11/13 00:33	GTG	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Certification Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

## Laboratory: TestAmerica Buffalo

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	04-01-14

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# Method Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-47593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-47593-1	SB-4 (8-9')	Solid	10/08/13 11:00	10/09/13 16:20
480-47593-2	SB-6 (8-9')	Solid	10/08/13 11:45	10/09/13 16:20
480-47593-3	SB-8 (8-9')	Solid	10/08/13 12:35	10/09/13 16:20
480-47593-4	SB-11 (8-9')	Solid	10/08/13 13:55	10/09/13 16:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-47593-1

**Login Number: 47593**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kolb, Chris M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	no tat on coc
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	





# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-48073-1

Client Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

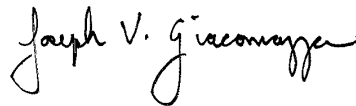
For:

New York State D.E.C.

6274 E. Avon-Lima Rd.

Avon, New York 14414

Attn: Joe Marchitell



Authorized for release by:

10/25/2013 11:46:37 AM

Joe Giacomazza, Project Administrator

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Brian Fischer, Project Manager II

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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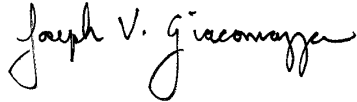
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



---

Joe Giacomazza  
Project Administrator  
10/25/2013 11:46:37 AM



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# Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

---

**Job ID: 480-48073-1**

---

**Laboratory: TestAmerica Buffalo**

---

**Narrative**

**Job Narrative  
480-48073-1**

**Receipt**

The sample was received on 10/16/2013 4:25 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

**Except:**

The Chain of Custody was received without a specified TAT listed.

**GC/MS VOA**

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: Fill Port Soil (480-48073-1).

No other analytical or quality issues were noted.

**GC/MS Semi VOA**

No analytical or quality issues were noted.

**Organic Prep**

No analytical or quality issues were noted.



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

**Client Sample ID: Fill Port Soil**

**Lab Sample ID: 480-48073-1**

Date Collected: 10/11/13 12:00

Matrix: Solid

Date Received: 10/16/13 16:25

Percent Solids: 89.4

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6	0.27	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
Ethylbenzene	ND		5.6	0.38	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
Toluene	ND		5.6	0.42	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
<b>m-Xylene &amp; p-Xylene</b>	<b>1.1</b>	<b>J</b>	11	0.94	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
o-Xylene	ND		5.6	0.73	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
<b>Xylenes, Total</b>	<b>1.1</b>	<b>J</b>	11	0.94	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
Isopropylbenzene	ND		5.6	0.84	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
n-Butylbenzene	ND		5.6	0.48	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
sec-Butylbenzene	ND		5.6	0.48	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
Naphthalene	ND		5.6	0.75	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1
tert-Butylbenzene	ND		5.6	0.58	ug/Kg	☼	10/24/13 00:24	10/24/13 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 126	10/24/13 00:24	10/24/13 01:42	1
Toluene-d8 (Surr)	106		71 - 125	10/24/13 00:24	10/24/13 01:42	1
4-Bromofluorobenzene (Surr)	113		72 - 126	10/24/13 00:24	10/24/13 01:42	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Acenaphthene</b>	<b>21</b>	<b>J</b>	190	2.2	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
<b>Anthracene</b>	<b>16</b>	<b>J</b>	190	4.7	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Benzo(a)anthracene	ND		190	3.2	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Benzo(a)pyrene	ND		190	4.4	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Benzo(b)fluoranthene	ND		190	3.6	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Benzo(g,h,i)perylene	ND		190	2.2	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Benzo(k)fluoranthene	ND		190	2.0	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Chrysene	ND		190	1.8	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
<b>Fluoranthene</b>	<b>8.7</b>	<b>J</b>	190	2.7	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Fluorene	ND		190	4.3	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Indeno(1,2,3-cd)pyrene	ND		190	5.1	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Naphthalene	ND		190	3.1	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
<b>Phenanthrene</b>	<b>21</b>	<b>J</b>	190	3.9	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1
Pyrene	ND		190	1.2	ug/Kg	☼	10/17/13 07:27	10/18/13 21:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		39 - 146	10/17/13 07:27	10/18/13 21:26	1
2-Fluorophenol	71		18 - 120	10/17/13 07:27	10/18/13 21:26	1
2-Fluorobiphenyl	84		37 - 120	10/17/13 07:27	10/18/13 21:26	1
Phenol-d5	75		11 - 120	10/17/13 07:27	10/18/13 21:26	1
p-Terphenyl-d14	115		65 - 153	10/17/13 07:27	10/18/13 21:26	1
Nitrobenzene-d5	75		34 - 132	10/17/13 07:27	10/18/13 21:26	1

TestAmerica Buffalo

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

**Client Sample ID: Fill Port Soil**

**Lab Sample ID: 480-48073-1**

**Date Collected: 10/11/13 12:00**

**Matrix: Solid**

**Date Received: 10/16/13 16:25**

**Percent Solids: 89.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			147095	10/24/13 00:24	CDC	TAL BUF
Total/NA	Analysis	8260C		1	147088	10/24/13 01:42	PJQ	TAL BUF
Total/NA	Prep	3550C			145524	10/17/13 07:27	DLE	TAL BUF
Total/NA	Analysis	8270D		1	145936	10/18/13 21:26	RMM	TAL BUF
Total/NA	Analysis	Moisture		1	145433	10/16/13 21:07	GTG	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Certification Summary

Client: New York State D.E.C.  
 Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

## Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-15-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14



# Method Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-48073-1

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-48073-1	Fill Port Soil	Solid	10/11/13 12:00	10/16/13 16:25

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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
 Drinking Water? Yes  No

## Chain of Custody Record

TAL-4124 (1007)

Client: **NYSDEC Region 8** Chain of Custody Number: **251057**  
 Project Manager: **Joe Mochite** Date: **10/11/13**  
 Telephone Number (Area Code)/Fax Number: \_\_\_\_\_ Lab Number: \_\_\_\_\_  
 Address: \_\_\_\_\_ Page **1** of **1**

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Project Name and Location (State): **YS East Genesee St Clyde, NY**  
 Contract/Purchase Order/Quote No.: **Spill No 13-02111**  
 Lab Contact: \_\_\_\_\_ Lab Contact: \_\_\_\_\_  
 Site Contact: \_\_\_\_\_ Carrier/Waybill Number: \_\_\_\_\_  
 Analysis (Attach list if more space is needed):  
 8260 STAS X  
 8270 STAS X

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt		
			Air	soenaby	Sed	Soil	Unpres:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
Fill Port Soil	10/11/13	12:00			X										



Possible Hazard Identification  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other: \_\_\_\_\_

1. Relinquished By: \_\_\_\_\_ Date: **10/16/13** Time: **13:45**  
 2. Relinquished By: \_\_\_\_\_ Date: **10/16/13** Time: **16:25**  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

GC Requirements (Specify):  
 1. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: **4.0 ICE#**



## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-48073-1

**Login Number: 48073**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kolb, Chris M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	no tat on coc
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	False	sample collected on 10/11/13
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



**APPENDIX C**  
**Tank Disposal Receipts**

RECEIPT NO. 61670

Trout Auto Recycling  
2410 Edwards Road  
Waterloo, NY 13165  
phone 315-789-5742

Sold to:            cust-#: 137823241  
Koske, Arthur  
1711 Center Rd  
East Aurora, NY 14052

Ship to:

date	by	code	terms	phone#	reference
07-NOV-13					

item-#	veh#	qty	unit	price	description	amount
LONG STEEL		-12.5000	100	11.10	long steel	n -138.75

I hereby affirm the above listed items are mine and I am authorized to sell them.

All parts are as is. No warranties. Labor and deposits are non-refundable

SUBTOTAL: -138.75

( 8.000%) TAX: 0.00

S & H: 0.00

TOTAL: -138.75

AMOUNT PAID: -138.75

BALANCE: 0.00

HOW PAID: cash

RECEIPT NO. 61675

Trout Auto Recycling  
2410 Edwards Road  
Waterloo, NY 13165  
phone 315-789-5742

Sold to: cust-#: 137823241  
Koske, Arthur  
1711 Center Rd  
East Aurora, NY 14052

Ship to:

date	by	code	terms	phone#	reference
07-NOV-13					

item-#	veh#	qty	unit	price	description	amount
LONG STEEL		-15.3000	100	11.10	long steel	n -169.83

I hereby affirm the above listed items are mine and I am authorized to sell them.

All parts are as is. No warranties. Labor and deposits are non-refundable

SUBTOTAL:	-169.83
( 8.000%) TAX:	0.00
S & H:	0.00
TOTAL:	-169.83
AMOUNT PAID:	-169.83
BALANCE:	0.00
HOW PAID:	CASH

RECEIPT NO. 61683

Trout Auto Recycling  
2410 Edwards Road  
Waterloo, NY 13165  
phone 315-789-5742

Sold to: cust-#: 137823241  
Koske, Arthur  
1711 Center Rd  
East Aurora, NY 14052

Ship to:

date	by	code	terms	phone#	reference
08-NOV-13					

item-#	veh#	qty	unit	price	description	amount
LONG STEEL		-15.1000	100	11.10	long steel	n -167.61

I hereby affirm the above listed items are mine and I am authorized to sell them.

All parts are as is. No warranties. Labor and deposits are non-refundable

SUBTOTAL: -167.61

( 8.000%) TAX: 0.00

S & H: 0.00

TOTAL: -167.61

AMOUNT PAID: -167.61

BALANCE: 0.00

HOW PAID: cash



**APPENDIX D**  
**Laboratory Analytical Report for Confirmation Samples**

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-49787-1

Client Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

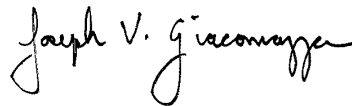
For:

New York State D.E.C.

6274 E. Avon-Lima Rd.

Avon, New York 14414

Attn: Joe Marchitell



Authorized for release by:

11/18/2013 4:36:05 PM

Joe Giacomazza, Project Management Assistant II

[joe.giacomazza@testamericainc.com](mailto:joe.giacomazza@testamericainc.com)

Designee for

Brian Fischer, Manager of Project Management

(716)504-9835

[brian.fischer@testamericainc.com](mailto:brian.fischer@testamericainc.com)

### LINKS

Review your project  
results through

TotalAccess

Have a Question?



Visit us at:

[www.testamericainc.com](http://www.testamericainc.com)

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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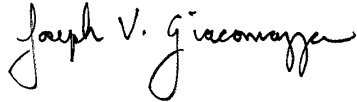
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



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Joe Giacomazza  
Project Management Assistant II  
11/18/2013 4:36:05 PM



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## Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

### Qualifiers

#### GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

# Case Narrative

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Job ID: 480-49787-1**

**Laboratory: TestAmerica Buffalo**

## Narrative

**Job Narrative**  
**480-49787-1**

### Receipt

The samples were received on 11/8/2013 5:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

### Except:

The Chain of Custody was received without a specified TAT listed.

### GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 152170 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

Method(s) 8260C: Reported analyte concentrations in the following samples are below 200ug/kg and may be biased low due to the samples not being collected according to 5035-L/5035A-L low-level specifications: AOC-9-SS-8 (480-49955-12 MSD), East Bottom (480-49787-4), North Side Wall (480-49787-1), South Side Wall (480-49787-2), Stockpile (480-49787-5), West Bottom (480-49787-3).

No other analytical or quality issues were noted.

### GC/MS Semi VOA

No analytical or quality issues were noted.

### Organic Prep

No analytical or quality issues were noted.

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: North Side Wall**

**Lab Sample ID: 480-49787-1**

Date Collected: 11/07/13 14:15

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 88.6

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6	0.28	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Toluene	ND		5.6	0.43	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
m-Xylene & p-Xylene	ND		11	0.95	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
o-Xylene	ND		5.6	0.74	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Xylenes, Total	ND		11	0.95	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Isopropylbenzene	ND		5.6	0.85	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Naphthalene	ND		5.6	0.76	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1
tert-Butylbenzene	ND		5.6	0.59	ug/Kg	☼	11/14/13 14:00	11/15/13 01:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	11/14/13 14:00	11/15/13 01:18	1
Toluene-d8 (Surr)	93		71 - 125	11/14/13 14:00	11/15/13 01:18	1
4-Bromofluorobenzene (Surr)	96		72 - 126	11/14/13 14:00	11/15/13 01:18	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	11	J	190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Anthracene	42	J	190	4.8	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Benzo(a)anthracene	190		190	3.3	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Benzo(a)pyrene	160	J	190	4.6	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Benzo(b)fluoranthene	190		190	3.7	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Benzo(g,h,i)perylene	62	J	190	2.3	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Benzo(k)fluoranthene	94	J	190	2.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Chrysene	180	J	190	1.9	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Dibenz(a,h)anthracene	25	J	190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Fluoranthene	380		190	2.7	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Fluorene	13	J	190	4.4	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Indeno(1,2,3-cd)pyrene	59	J	190	5.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Naphthalene	ND		190	3.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Phenanthrene	220		190	4.0	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1
Pyrene	280		190	1.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	84		39 - 146	11/13/13 07:30	11/16/13 07:28	1
2-Fluorophenol	74		18 - 120	11/13/13 07:30	11/16/13 07:28	1
2-Fluorobiphenyl	80		37 - 120	11/13/13 07:30	11/16/13 07:28	1
Phenol-d5	76		11 - 120	11/13/13 07:30	11/16/13 07:28	1
p-Terphenyl-d14	82		65 - 153	11/13/13 07:30	11/16/13 07:28	1
Nitrobenzene-d5	80		34 - 132	11/13/13 07:30	11/16/13 07:28	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: South Side Wall**

**Lab Sample ID: 480-49787-2**

Date Collected: 11/07/13 14:25

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 93.1

## Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.4	0.26	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Ethylbenzene	ND		5.4	0.37	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Toluene	ND		5.4	0.41	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
m-Xylene & p-Xylene	ND		11	0.90	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
o-Xylene	ND		5.4	0.70	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Xylenes, Total	ND		11	0.90	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Isopropylbenzene	ND		5.4	0.81	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
N-Propylbenzene	ND		5.4	0.43	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
4-Isopropyltoluene	ND		5.4	0.43	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
1,2,4-Trimethylbenzene	ND		5.4	1.0	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
1,3,5-Trimethylbenzene	ND		5.4	0.35	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
n-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
sec-Butylbenzene	ND		5.4	0.47	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Naphthalene	ND		5.4	0.72	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
Methyl tert-butyl ether	ND		5.4	0.53	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1
tert-Butylbenzene	ND		5.4	0.56	ug/Kg	☼	11/14/13 14:00	11/15/13 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	11/14/13 14:00	11/15/13 01:43	1
Toluene-d8 (Surr)	94		71 - 125	11/14/13 14:00	11/15/13 01:43	1
4-Bromofluorobenzene (Surr)	98		72 - 126	11/14/13 14:00	11/15/13 01:43	1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	22	J	180	2.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Acenaphthylene	27	J	180	1.5	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Anthracene	100	J	180	4.6	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Benzo(a)anthracene	610		180	3.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Benzo(a)pyrene	750		180	4.3	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Benzo(b)fluoranthene	1100		180	3.5	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Benzo(g,h,i)perylene	210		180	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Benzo(k)fluoranthene	440		180	2.0	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Chrysene	630		180	1.8	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Dibenz(a,h)anthracene	85	J	180	2.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Fluoranthene	870		180	2.6	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Fluorene	20	J	180	4.1	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Indeno(1,2,3-cd)pyrene	210		180	5.0	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Naphthalene	180		180	3.0	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Phenanthrene	370		180	3.8	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1
Pyrene	720		180	1.2	ug/Kg	☼	11/13/13 07:30	11/16/13 07:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		39 - 146	11/13/13 07:30	11/16/13 07:52	1
2-Fluorophenol	71		18 - 120	11/13/13 07:30	11/16/13 07:52	1
2-Fluorobiphenyl	80		37 - 120	11/13/13 07:30	11/16/13 07:52	1
Phenol-d5	76		11 - 120	11/13/13 07:30	11/16/13 07:52	1
p-Terphenyl-d14	79		65 - 153	11/13/13 07:30	11/16/13 07:52	1
Nitrobenzene-d5	81		34 - 132	11/13/13 07:30	11/16/13 07:52	1

TestAmerica Buffalo



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: West Bottom**

**Lab Sample ID: 480-49787-3**

Date Collected: 11/07/13 14:35

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 89.8

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.5	0.27	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Ethylbenzene	ND		5.5	0.38	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Toluene	ND		5.5	0.42	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
m-Xylene & p-Xylene	ND		11	0.93	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
o-Xylene	ND		5.5	0.72	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Xylenes, Total	ND		11	0.93	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Isopropylbenzene	ND		5.5	0.83	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
N-Propylbenzene	ND		5.5	0.44	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
4-Isopropyltoluene	ND		5.5	0.44	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
1,2,4-Trimethylbenzene	ND		5.5	1.1	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
1,3,5-Trimethylbenzene	ND		5.5	0.36	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
n-Butylbenzene	ND		5.5	0.48	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
sec-Butylbenzene	ND		5.5	0.48	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Naphthalene	ND		5.5	0.74	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
Methyl tert-butyl ether	ND		5.5	0.54	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1
tert-Butylbenzene	ND		5.5	0.57	ug/Kg	☼	11/14/13 14:00	11/15/13 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	11/14/13 14:00	11/15/13 02:09	1
Toluene-d8 (Surr)	92		71 - 125	11/14/13 14:00	11/15/13 02:09	1
4-Bromofluorobenzene (Surr)	96		72 - 126	11/14/13 14:00	11/15/13 02:09	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Anthracene	ND		190	4.8	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Benzo(a)anthracene	ND		190	3.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Benzo(a)pyrene</b>	<b>7.8</b>	<b>J</b>	190	4.5	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Benzo(b)fluoranthene</b>	<b>16</b>	<b>J</b>	190	3.6	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Benzo(g,h,i)perylene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Benzo(k)fluoranthene</b>	<b>6.9</b>	<b>J</b>	190	2.1	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Chrysene</b>	<b>11</b>	<b>J</b>	190	1.9	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Fluoranthene</b>	<b>17</b>	<b>J</b>	190	2.7	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Fluorene	ND		190	4.3	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Indeno(1,2,3-cd)pyrene	ND		190	5.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Naphthalene	ND		190	3.1	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
Phenanthrene	ND		190	3.9	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1
<b>Pyrene</b>	<b>13</b>	<b>J</b>	190	1.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	91		39 - 146	11/13/13 07:30	11/16/13 08:15	1
2-Fluorophenol	83		18 - 120	11/13/13 07:30	11/16/13 08:15	1
2-Fluorobiphenyl	88		37 - 120	11/13/13 07:30	11/16/13 08:15	1
Phenol-d5	86		11 - 120	11/13/13 07:30	11/16/13 08:15	1
p-Terphenyl-d14	83		65 - 153	11/13/13 07:30	11/16/13 08:15	1
Nitrobenzene-d5	89		34 - 132	11/13/13 07:30	11/16/13 08:15	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: East Bottom**

**Lab Sample ID: 480-49787-4**

**Date Collected: 11/07/13 14:45**

**Matrix: Solid**

**Date Received: 11/08/13 17:25**

**Percent Solids: 89.6**

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.5	0.27	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Ethylbenzene	ND		5.5	0.38	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Toluene	ND		5.5	0.42	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
m-Xylene & p-Xylene	ND		11	0.93	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
o-Xylene	ND		5.5	0.72	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Xylenes, Total	ND		11	0.93	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Isopropylbenzene	ND		5.5	0.83	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
N-Propylbenzene	ND		5.5	0.44	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
4-Isopropyltoluene	ND		5.5	0.44	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
1,2,4-Trimethylbenzene	ND		5.5	1.1	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
1,3,5-Trimethylbenzene	ND		5.5	0.36	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
n-Butylbenzene	ND		5.5	0.48	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
sec-Butylbenzene	ND		5.5	0.48	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Naphthalene	ND		5.5	0.74	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
Methyl tert-butyl ether	ND		5.5	0.54	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1
tert-Butylbenzene	ND		5.5	0.57	ug/Kg	☼	11/14/13 14:00	11/15/13 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 126	11/14/13 14:00	11/15/13 02:35	1
Toluene-d8 (Surr)	92		71 - 125	11/14/13 14:00	11/15/13 02:35	1
4-Bromofluorobenzene (Surr)	97		72 - 126	11/14/13 14:00	11/15/13 02:35	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
Acenaphthylene	ND		190	1.5	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Anthracene</b>	<b>9.1</b>	<b>J</b>	190	4.7	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Benzo(a)anthracene</b>	<b>47</b>	<b>J</b>	190	3.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Benzo(a)pyrene</b>	<b>42</b>	<b>J</b>	190	4.5	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Benzo(b)fluoranthene</b>	<b>61</b>	<b>J</b>	190	3.6	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Benzo(g,h,i)perylene</b>	<b>11</b>	<b>J</b>	190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Benzo(k)fluoranthene</b>	<b>30</b>	<b>J</b>	190	2.0	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Chrysene</b>	<b>50</b>	<b>J</b>	190	1.9	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Fluoranthene</b>	<b>82</b>	<b>J</b>	190	2.7	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
Fluorene	ND		190	4.3	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Indeno(1,2,3-cd)pyrene</b>	<b>11</b>	<b>J</b>	190	5.1	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
Naphthalene	ND		190	3.1	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Phenanthrene</b>	<b>40</b>	<b>J</b>	190	3.9	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1
<b>Pyrene</b>	<b>57</b>	<b>J</b>	190	1.2	ug/Kg	☼	11/13/13 07:30	11/16/13 08:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	96		39 - 146	11/13/13 07:30	11/16/13 08:39	1
2-Fluorophenol	79		18 - 120	11/13/13 07:30	11/16/13 08:39	1
2-Fluorobiphenyl	88		37 - 120	11/13/13 07:30	11/16/13 08:39	1
Phenol-d5	83		11 - 120	11/13/13 07:30	11/16/13 08:39	1
p-Terphenyl-d14	86		65 - 153	11/13/13 07:30	11/16/13 08:39	1
Nitrobenzene-d5	87		34 - 132	11/13/13 07:30	11/16/13 08:39	1

TestAmerica Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: Stockpile**

**Lab Sample ID: 480-49787-5**

Date Collected: 11/08/13 09:00

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 87.6

**Method: 8260C - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.6	0.28	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Ethylbenzene	ND		5.6	0.39	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Toluene	ND		5.6	0.43	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
m-Xylene & p-Xylene	ND		11	0.95	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
o-Xylene	ND		5.6	0.74	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Xylenes, Total	ND		11	0.95	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Isopropylbenzene	ND		5.6	0.85	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
N-Propylbenzene	ND		5.6	0.45	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
4-Isopropyltoluene	ND		5.6	0.45	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
1,2,4-Trimethylbenzene	ND		5.6	1.1	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
1,3,5-Trimethylbenzene	ND		5.6	0.36	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
n-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
sec-Butylbenzene	ND		5.6	0.49	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Naphthalene	ND		5.6	0.76	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
Methyl tert-butyl ether	ND		5.6	0.55	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1
tert-Butylbenzene	ND		5.6	0.59	ug/Kg	☼	11/14/13 14:00	11/15/13 03:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 126	11/14/13 14:00	11/15/13 03:00	1
Toluene-d8 (Surr)	93		71 - 125	11/14/13 14:00	11/15/13 03:00	1
4-Bromofluorobenzene (Surr)	97		72 - 126	11/14/13 14:00	11/15/13 03:00	1

**Method: 8270D - Semivolatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	17	J	190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Acenaphthylene	33	J	190	1.6	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Anthracene	60	J	190	4.9	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Benzo(a)anthracene	370		190	3.3	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Benzo(a)pyrene	340		190	4.6	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Benzo(b)fluoranthene	540		190	3.7	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Benzo(g,h,i)perylene	81	J	190	2.3	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Benzo(k)fluoranthene	220		190	2.1	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Chrysene	360		190	1.9	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Dibenz(a,h)anthracene	ND		190	2.2	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Fluoranthene	630		190	2.7	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Fluorene	20	J	190	4.4	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Indeno(1,2,3-cd)pyrene	86	J	190	5.2	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Naphthalene	ND		190	3.2	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Phenanthrene	340		190	4.0	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1
Pyrene	460		190	1.2	ug/Kg	☼	11/13/13 07:30	11/16/13 09:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	90		39 - 146	11/13/13 07:30	11/16/13 09:03	1
2-Fluorophenol	77		18 - 120	11/13/13 07:30	11/16/13 09:03	1
2-Fluorobiphenyl	84		37 - 120	11/13/13 07:30	11/16/13 09:03	1
Phenol-d5	80		11 - 120	11/13/13 07:30	11/16/13 09:03	1
p-Terphenyl-d14	81		65 - 153	11/13/13 07:30	11/16/13 09:03	1
Nitrobenzene-d5	82		34 - 132	11/13/13 07:30	11/16/13 09:03	1

TestAmerica Buffalo

# Lab Chronicle

Client: New York State D.E.C.  
 Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

## Client Sample ID: North Side Wall

Lab Sample ID: 480-49787-1

Date Collected: 11/07/13 14:15

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 88.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			152110	11/14/13 14:00	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	152172	11/15/13 01:18	PJQ	TAL BUF
Total/NA	Prep	3550C			151640	11/13/13 07:30	CAM	TAL BUF
Total/NA	Analysis	8270D		1	152436	11/16/13 07:28	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	151603	11/13/13 00:16	GTG	TAL BUF

## Client Sample ID: South Side Wall

Lab Sample ID: 480-49787-2

Date Collected: 11/07/13 14:25

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 93.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			152110	11/14/13 14:00	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	152172	11/15/13 01:43	PJQ	TAL BUF
Total/NA	Prep	3550C			151640	11/13/13 07:30	CAM	TAL BUF
Total/NA	Analysis	8270D		1	152436	11/16/13 07:52	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	151603	11/13/13 00:16	GTG	TAL BUF

## Client Sample ID: West Bottom

Lab Sample ID: 480-49787-3

Date Collected: 11/07/13 14:35

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			152110	11/14/13 14:00	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	152172	11/15/13 02:09	PJQ	TAL BUF
Total/NA	Prep	3550C			151640	11/13/13 07:30	CAM	TAL BUF
Total/NA	Analysis	8270D		1	152436	11/16/13 08:15	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	151603	11/13/13 00:16	GTG	TAL BUF

## Client Sample ID: East Bottom

Lab Sample ID: 480-49787-4

Date Collected: 11/07/13 14:45

Matrix: Solid

Date Received: 11/08/13 17:25

Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			152110	11/14/13 14:00	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	152172	11/15/13 02:35	PJQ	TAL BUF
Total/NA	Prep	3550C			151640	11/13/13 07:30	CAM	TAL BUF
Total/NA	Analysis	8270D		1	152436	11/16/13 08:39	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	151603	11/13/13 00:16	GTG	TAL BUF

TestAmerica Buffalo

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

**Client Sample ID: Stockpile**

**Lab Sample ID: 480-49787-5**

**Date Collected: 11/08/13 09:00**

**Matrix: Solid**

**Date Received: 11/08/13 17:25**

**Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			152110	11/14/13 14:00	PJQ	TAL BUF
Total/NA	Analysis	8260C		1	152172	11/15/13 03:00	PJQ	TAL BUF
Total/NA	Prep	3550C			151640	11/13/13 07:30	CAM	TAL BUF
Total/NA	Analysis	8270D		1	152436	11/16/13 09:03	ANM	TAL BUF
Total/NA	Analysis	Moisture		1	151603	11/13/13 00:16	GTG	TAL BUF

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Certification Summary

Client: New York State D.E.C.  
 Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

## Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-14
California	NELAP	9	1169CA	09-30-14
Connecticut	State Program	1	PH-0568	09-30-14
Florida	NELAP	4	E87672	06-30-14
Georgia	State Program	4	N/A	03-31-14
Illinois	NELAP	5	200003	09-30-14
Iowa	State Program	7	374	03-01-15
Kansas	NELAP	7	E-10187	01-31-14
Kentucky	State Program	4	90029	12-31-13 *
Kentucky (UST)	State Program	4	30	04-01-14
Louisiana	NELAP	6	02031	06-30-14
Maine	State Program	1	NY00044	12-04-14
Maryland	State Program	3	294	03-31-14
Massachusetts	State Program	1	M-NY044	06-30-14
Michigan	State Program	5	9937	04-01-14
Minnesota	NELAP	5	036-999-337	12-31-13 *
New Hampshire	NELAP	1	2973	09-11-14
New Jersey	NELAP	2	NY455	06-30-14
New York	NELAP	2	10026	04-01-14
North Dakota	State Program	8	R-176	03-31-14
Oklahoma	State Program	6	9421	08-31-14
Oregon	NELAP	10	NY200003	06-09-14
Pennsylvania	NELAP	3	68-00281	07-31-14
Rhode Island	State Program	1	LAO00328	12-31-13
Tennessee	State Program	4	TN02970	04-01-14
Texas	NELAP	6	T104704412-11-2	07-31-14
USDA	Federal		P330-11-00386	11-22-14
Virginia	NELAP	3	460185	09-14-14
Washington	State Program	10	C784	02-10-14
West Virginia DEP	State Program	3	252	12-31-13
Wisconsin	State Program	5	998310390	08-31-14

\* Expired certification is currently pending renewal and is considered valid.

# Method Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



# Sample Summary

Client: New York State D.E.C.  
Project/Site: NYSDEC-45 E. Genesee St:Site# 1302111

TestAmerica Job ID: 480-49787-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-49787-1	North Side Wall	Solid	11/07/13 14:15	11/08/13 17:25
480-49787-2	South Side Wall	Solid	11/07/13 14:25	11/08/13 17:25
480-49787-3	West Bottom	Solid	11/07/13 14:35	11/08/13 17:25
480-49787-4	East Bottom	Solid	11/07/13 14:45	11/08/13 17:25
480-49787-5	Stockpile	Solid	11/08/13 09:00	11/08/13 17:25

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11



# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt \_\_\_\_\_  
 Drinking Water? Yes  No

## Chain of Custody Record

TAL-4124 (1007)

Client: NYSDEC Reg. 8 Chain of Custody Number: 251059  
 Address: \_\_\_\_\_ Date: 11/8/13  
 Project Manager: Joe Marchetti Lab Number: \_\_\_\_\_  
 Telephone Number (Area Code)/Fax Number: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Site Contact: 505-313 Lab Contact: \_\_\_\_\_  
 Carrier/Vendor: Greenville Carrier/Vendor Number: 8588  
 Project Name and Location (State): 45 East Genesee St Clyde, NY

Contract/Purchase Order/Quote No.: Spill No. B-02111  
 Sample I.D. No. and Description (Containers for each sample may be combined on one line):

Sample I.D. No. and Description	Date	Time	Matrix					Containers & Preservatives					Special Instructions/Conditions of Receipt				
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
North Side wall	11/7/13	1415		X		X		X									
South Side wall	11/7/13	1425		X		X		X									
West Bottom	11/7/13	1435		X		X		X									
East Bottom	11/7/13	1445		X		X		X									
Stack pile	11/8/13	900		X		X		X									



480-49787 Chain of Custody

Possible Hazard Identification:  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:  
 24 Hours  48 Hours  7 Days  14 Days  21 Days  Other: \_\_\_\_\_

QC Requirements (Specify): \_\_\_\_\_

1. Relinquished By: Joe Marchetti Date: 11/8/13 Time: 1600  
 2. Relinquished By: Joe Marchetti Date: 11/8/13 Time: 1725  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

1. Received By: \_\_\_\_\_ Date: 11/8/13 Time: 16:00  
 2. Received By: Joe Marchetti Date: 11/8/13 Time: 1725  
 3. Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Comments: Temp 3.8 FCEH

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Slays with the Sample; PINK - Field Copy

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## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-49787-1

**Login Number: 49787**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: Kolb, Chris M**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	no tat on coc
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	N/A	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

