

**PHASE II  
ENVIRONMENTAL SITE ASSESSMENT**

**of the**

**ONEIDA COUNTY  
BUSINESS PARK EXPANSION  
Intersection of Judd and Airport Roads  
Town of Whitestown  
Oneida County, New York**

Prepared for:

**MOHAWK VALLEY EDGE**  
584 Phoenix Drive  
Rome, New York 13441

Prepared by:



8232 Loop Road  
Baldwinsville, New York 13027  
(315) 638-8587  
Project No. 2014005

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## 1.0 INTRODUCTION

Plumley Engineering was retained by Mohawk Valley EDGE to complete a Phase II Environmental Site Assessment (ESA) for the Oneida County Business Park Expansion. The Property consists of two adjoining parcels (Tax Map Identification Nos. 290.000-2-48 and 290.000-2-48) located at the intersection of Judd and Airport Roads in the Town of Whitestown, Oneida County, New York. The Property is approximately 82.8 acres in size and is currently rural vacant agricultural land.

### 1.1 PURPOSE

In August 2013, a Phase I ESA was conducted by Shumaker Consulting Engineering & Land Surveying, P.C. (Shumaker). The findings of the Phase I ESA recommended further evaluation and subsurface investigation of the following recognized environmental conditions (RECs):

- Waste piles at various locations within the eastern parcel.
- An open spill on the adjoining property at the former Frank's Rental Service.
- Past spills (as a historical REC) on the Oneida County Department of Public Works (OCDPW) property.
- Past spills (as a historical REC) on the Williams Advanced Materials property.

Refer to the August 2013 *Phase I Environmental Site Assessment for Oneida County Business Park Expansion Property* completed by Shumaker for additional information.

### 1.2 SPECIAL TERMS AND CONDITIONS

The Phase II ESA included the completion of test pits, soil borings and installation of temporary groundwater sampling wells to evaluate subsurface soils and groundwater.

Selected soil and groundwater samples were analyzed for potential site contaminants. The Phase II ESA was completed in general conformance with American Society for Testing and Materials (ASTM) Standard E 1903-97 (2002), *Standard Guide for Environmental Site Assessments: Phase II Environmental Site Assessment Process*.

Services performed by Plumley Engineering in preparation of this report were conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the engineering profession practicing contemporaneously under similar conditions in the locality of the project. Under no circumstances is any warranty, expressed or implied, made in connection with providing these services.

### 1.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

A Phase II ESA was completed with the benefit of a Phase I ESA. The scope of the Phase II ESA was based on available information concerning the Property.

### 1.4 LIMITING CONDITIONS AND METHODOLOGY USED

The Phase II ESA evaluated subsurface soils and shallow groundwater for contaminants involving petroleum compounds from select locations in different areas across the site. This assessment cannot rule out contaminants not included in the analytical program, or localized soil or groundwater impacts in areas not investigated.

## 2.0 BACKGROUND

### 2.1 SITE DESCRIPTION AND FEATURES

The Property is two adjoining parcels located at the northeast corner of intersection of Judd and Airport Roads in the Town of Whitestown, Oneida County, New York. The total size

of the two parcels is approximately 82.8 acres. Refer to *Figure 1 – Site Location Map*, *Figure 2 – Aerial Photo* and *Figure 3 – Investigation Site Plan* for additional information.

## 2.2 PHYSICAL SETTING

The elevation of the Property ranges from 730 feet to 558 feet (USGS datum) above sea level and generally slopes to the north. The nearest body of water is an unnamed stream that runs west to east across the north end of the site. Refer to *Figure 1 – Site Location Map* for additional information.

## 2.3 SITE HISTORY AND LAND USE

According to the August 2013 Phase I ESA completed by Shumaker, the Property has been utilized for rural agricultural and residential purposes since 1941.

## 2.4 ADJACENT PROPERTY LAND USE

Adjacent properties have been utilized for commercial industrial purposes, such as gasoline, diesel, fuel oil and chlorinated solvent storage, commercial garage, auto repair and storage.

## 3.0 PHASE II ACTIVITIES

### 3.1 SCOPE OF WORK

The scope of work for this Phase II ESA included completion of test pits and soil borings and the installation of temporary monitoring wells to evaluate subsurface soils and groundwater. Thirteen test pits and ten soil borings were completed on January 30, 2014. Temporary wells were installed in five of the ten borings.

Soil samples were collected from each test pit and boring at various depths and groundwater samples were collected from four of the temporary wells on January 30, 2014. Select soil and groundwater samples were submitted to the laboratory for analytical analysis.

### 3.1.1 Conceptual Site Model and Sampling Plan

Potential site contaminants generally associated with industrial facilities include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs) and metals. VOCs are generally soluble in water, and therefore mobile in the environment. In general, VOCs tend to be found in soils near potential sources and also migrate away from source areas in groundwater. SVOCs, PCBs and metals generally tend to be less mobile and are found in soils near potential sources, but do not migrate as readily in groundwater. This Phase II ESA assessed VOC, SVOC, PCBs and metals impacts to soil and VOC and SVOC impacts to groundwater.

Test pits were completed in waste pile areas within the eastern parcel and other locations throughout the Property to further assess subsurface soil conditions. Soil borings were completed in the vicinity of the former Frank's Rental Service property boundary and in areas anticipated to be downgradient, with respect to groundwater flow, of past spills at the OCDPW and Williams Advanced Materials properties. The approximate sample locations are shown on *Figure 3 – Investigation Site Plan*.

### 3.1.2 Chemical Testing Plan

Selected subsurface soil samples were analyzed for VOCs using EPA Method 8260, SVOCs using EPA Method 8270 (base/neutral compounds), PCBs using EPA Method 8080 and eight RCRA metals [Arsenic, Barium, Cadmium, Chromium (Hexavalent and Trivalent), Total Lead, Total Mercury, Selenium and Silver] using various EPA Methods. Groundwater samples were analyzed for VOCs and SVOCs. These are the parameters typically required

by the New York State Department of Environmental Conservation (DEC) for industrial sites.

## 3.2 FIELD EXPLORATIONS AND METHODS

### 3.2.1 Test Pits

A track excavator and operator from NYEG Drilling, LLC, accompanied by an environmental scientist from Plumley Engineering, completed test pits on the Property on January 30, 2014. A total of thirteen test pits were completed to depths of 2 to 9 feet below the ground surface (bgs). Tests pits TP-1 through TP-5 were completed in the areas of Waste Pile #1 and Waste Pile #2. Test pits TP-6 through TP-13 were completed in various locations to further assess subsurface soils.

Soil samples were collected from various depths in the tests pits. All samples were inspected and logged for field indicators of potential contamination. Representative samples were containerized in the field and screened with a photoionization detection (PID) meter.

### 3.2.2 Soil Borings

NYEG Drilling, LLC, accompanied by a geologist from Plumley Engineering, completed boring operations on the Property on January 30, 2014. Ten borings were completed to a maximum of 11 feet bgs or geoprobe refusal.

Soil samples were collected continuously from the ground surface to the bottom of each boring using 4-foot macro-core samplers. All samples were inspected and logged for soil lithology and field indicators of potential contamination. Representative samples were containerized in the field and screened with a PID meter.

Refer to *Appendix A – Boring Logs* for additional information.



### 3.2.3 Monitoring Well Installations

One-inch diameter temporary monitoring wells were installed in five of the ten soil boring locations (B-1/TW, B-4/TW, B-5/TW, B-7/TW and B-8/TW). Groundwater levels were measured on January 30, 2014.

## 3.3 SAMPLING AND CHEMICAL ANALYSES AND METHODS

### 3.3.1 Soil

Field indicators of apparent contamination (odors, staining, PID readings) were present in some of the subsurface soil samples collected from boring B-4. These samples had PID meter readings of 1 to 2 parts per million (ppm) and exhibited a weathered gasoline odor and/or staining. Refer to *Table 1 – Summary of Soil Data* for additional information.

Soil samples with indicators of apparent petroleum impact and soil samples in areas of suspected contamination were submitted to Accutest Laboratories (Accutest) for analysis in accordance with the chemical testing plan. The soil analytical results were compared to DEC Recommended Soil Cleanup Objectives<sup>1</sup> (SCOs), which are applicable regulating guidance values. For evaluation purposes, the results were also compared to the Industrial DEC Soil Cleanup Standards<sup>2</sup> (SCSs), applicable for sites if subject to one of the DEC's Remedial Programs.

### 3.3.2 Groundwater

Groundwater samples were collected by Plumley Engineering personnel on January 30, 2014 from temporary monitoring wells B-1/TW, B-4/TW, B-5/TW and B-8/TW using standard sampling methods. Temporary monitoring well B-7/TW was dry at 7.5 feet bgs and no

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<sup>1</sup>DEC Commissioner Policy, *CP-51 / Soil Cleanup Guidance*, issued October 21, 2010.

<sup>2</sup>New York Codes, Rules and Regulations, Title 6 (6NYCRR) Part 375-6, *Remedial Program Soil Cleanup Objectives*.

groundwater sample could be collected. A slight weathered gasoline odor was noted during the purging and sampling of well B-4/TW. No sheens or odors were noted during the purging or sampling of wells B-1/TW, B-5/TW or B-8/TW. The samples collected from all four wells were submitted to Accutest for analysis of VOCs and SVOCs. The results were compared to State groundwater standards.<sup>3</sup>

## **4.0 EVALUATION AND PRESENTATION OF RESULTS**

### **4.1 SUBSURFACE CONDITIONS**

#### **4.1.1 Geologic Setting**

The soil profile encountered can generally be described as follows:

0 to ±0.5 feet bgs.....Top soil

±0.5 to ±5 feet bgs .....Brown moist to wet silt with fine to medium sand and fine gravel.

±5 to ±7.5 feet bgs .....Brown moist to wet silt with clay and fine to medium sand and fine to coarse gravel lenses.

±7 to ±9 feet bgs .....Brown moist to wet silt with fine to medium sand and fine to coarse gravel with fragments of weathered rock.

The track excavator encountered refusal at approximately 9 feet bgs at test pit TP-13, indicating top of bedrock (Utica Shale) was likely encountered.

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<sup>3</sup>DEC Technical and Operational Guidance Series (TOGS) 1.1.1, *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limits*, dated June 1998 and April 2002 Addendum.

#### 4.1.2 Hydrogeologic Conditions

The water table was generally encountered at depths of 1.5 inches to 3.2 feet bgs. Historical groundwater elevation data collected by Plumley Engineering from 1991 to 1996 at the Frank's Rental Service property indicated a north to northwest groundwater flow on the south side of the Property toward the unnamed stream. Refer to *Figure 3 – Site Location Map* for additional information.

#### 4.1.3 Waste Piles

Test pits in the waste piles revealed household items such as bottles, cans, wood, chairs, concrete blocks, glass blocks and other debris. Soil samples showed no visual indication of environmental impact and no odors.

### 4.2 ANALYTICAL DATA

#### 4.2.1 Soil

No VOCs or SVOCs were detected above the laboratory's method of detection limit (MDL) in the subsurface soil samples collected from TP-2, TP-4, B-2, B-4 (two samples), B-7 and B-9.

Several metals were detected above MDLs in subsurface soil samples TP-2 and TP-4. None of the results exceeded the Unrestricted Use SCOs.

Total PCB concentrations in subsurface soil samples TP-2 and TP-4 were non-detected.

Refer to Table 2 – Summary of Soil Analytical Results and Appendix B – Laboratory Reports for additional information.

#### 4.2.2 Groundwater

Twelve of the thirteen VOCs were detected above State groundwater standards in the groundwater sample collected from B-4/TW. No other VOCs were detected above the MDL in the groundwater samples collected from B-1/TW, B-5/TW or B-8/TW. No SVOCs were detected above the MDL in any of the four groundwater samples collected.

Refer to *Table 3 – Summary of Groundwater Analytical Results* and *Appendix B – Laboratory Reports* for additional information.

### 5.0 DISCUSSION OF FINDINGS AND CONCLUSIONS

#### 5.1. AFFECTED MEDIA

Seven subsurface soil samples analyzed for this investigation contained no VOCs or SVOCs above the MDL.

PCBS were not detected above the MDL. A few metals were detected, but were below DEC SCOs.

One groundwater sample (B-4/TW) located downgradient from the open gasoline spill (Spill No. 87-07079) at the former Frank's Rental Service property had several VOC detections above State standards. No other VOCs were detected in the samples collected from B-1/TW, B-5/TW and B-8/TW. These borings/temporary wells are located in areas downgradient of the OCDPW site and cross gradient of the former Williams Advanced Metals site. No SVOCs were present above the MDL in any of the groundwater samples.

#### 5.2. RECOGNIZED ENVIRONMENTAL CONDITIONS

ASTM defines recognized environmental conditions as “...*the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an*

*existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater or surface waters of the property”. This definition is not intended to include de minimis conditions that generally would “...not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies”.*

The findings with regard to the RECs identified in the Phase I ESA are as follows:

- No indications of environmental impacts associated with the waste piles at various locations within the eastern parcel were identified.
- No indications of environmental impacts associated with past spills on the OCDPW property were identified.
- No indications of environmental impacts associated with past spills on the Williams Advanced Materials property were identified.
- The groundwater in well B-4/TW is impacted with several gasoline VOCs from the adjoining former Frank’s Rental Service property. The open spill on that property associated with removal of underground storage tanks has not been closed by the DEC because residual soil contamination has not been properly remediated.
- The extent of the impact on the subject Property is likely limited to a small area, since the levels present are relatively low. The presence of this contamination is considered an environmental concern.

### 5.3. RECOMMENDATIONS

We offer the following recommendations for your consideration:

- In order to reduce the groundwater impact on the Property, an appropriate cleanup on the adjacent Frank's Rental Service property would have to be undertaken. We recommend beginning discussions with the DEC and the property owner in order to advance the cleanup.
- The waste piles on the Property, although not an environmental concern, and other miscellaneous debris scattered around the Property should be removed and properly disposed of. Much of the debris appears to be recyclable glass and metal.

# **TABLES**

**ONEIDA COUNTY BUSINESS PARK EXPANSION**  
**Intersection of Judd Road and Airport Road**  
**Town of Whitestown, Oneida County, New York**

**TABLE 1 - SUMMARY OF SOIL DATA**

<b>BORING LOCATION</b>	<b>DEPTH (feet)</b>	<b>PID READING (ppm)</b>	<b>FIELD INDICATORS*</b>
B-1	0 to 4	0	
	4 to 8	0	
	8 to 11	0	
B-2	0 to 4	0	
	4 to 8	0	
	8 to 10.5	0	
B-3	0 to 4	0	
	4 to 8	0	
	8 to 9.5	0	
B-4	0 to 3.5	0	
	3.5 to 4	1.1	very weathered gasoline odor, trace staining
	4 to 4.5	1.2	very weathered gasoline odor, trace staining
	4.5 to 8	0	
	8 to 9	0	
B-5	0 to 4	0	
	4 to 8	0	
	8 to 11	0	
B-6	0 to 4	0	
	4 to 6	0	
B-7	0 to 4	0	
	4 to 7.8	0	
B-8	0 to 4	0	
	4 to 7.6	0	
B-9	0 to 4	0	
	4 to 6	0	
B-10	0 to 4	0	
	4 to 7	0	

Notes:

- PID Photoionization detection meter
- ppm Parts per million
- \* Odors, staining, sheens, free-product.
- Blank cells indicate no field indicators observed.
- NR Information was not recorded

Indicates soil from that sample interval was submitted for laboratory analysis.

All soil borings B-1 through B-10 were completed to refusal with 7720 Geoprobe Rig.



**ONEIDA COUNTY BUSINESS PARK EXPANSION**  
**Intersection of Judd Road and Airport Road**  
**Town of Whitestown, Oneida County, New York**

**TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS**

Date Sampled: 01/30/2014

Client Sample ID:	Unit	NY SCO - Unrestricted Use (6NYCRR 375-6 12/06) <sup>1</sup>	Recommended Soil Cleanup Level <sup>2</sup> (mg/kg)	B-2 (0-4')	B-4 (4'-4.5')	B-4 (4.5'-8')	B-7 (4'-7.8')	B-9 (4'-6')	TP-2	TP-4
Lab Sample ID:				MC28084-3	MC28084-4	MC28084-5	MC28084-6	MC28084-7	MC28084-1	MC28084-2
<b>GC/MS Volatiles (SW846 8260C)</b>										
Acetone	mg/kg	0.05	NS	-	-	-	-	-	ND (0.012)	ND (0.011)
Benzene	mg/kg	0.06	0.06	ND (0.034)	ND (0.031)	ND (0.030)	ND (0.029)	ND (0.028)	ND (0.00061)	ND (0.00057)
Bromobenzene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Bromochloromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Bromodichloromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Bromoform	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Bromomethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
2-Butanone (MEK)	mg/kg	0.12	NS	-	-	-	-	-	ND (0.012)	ND (0.011)
n-Butylbenzene	mg/kg	12	12	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
sec-Butylbenzene	mg/kg	11	11	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
tert-Butylbenzene	mg/kg	5.9	5.9	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
Carbon disulfide	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Carbon tetrachloride	mg/kg	0.76	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Chlorobenzene	mg/kg	1.1	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Chloroethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Chloroform	mg/kg	0.37	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Chloromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
o-Chlorotoluene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
p-Chlorotoluene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,2-Dibromo-3-chloropropane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Dibromochloromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,2-Dibromoethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,2-Dichlorobenzene	mg/kg	1.1	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,3-Dichlorobenzene	mg/kg	2.4	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,4-Dichlorobenzene	mg/kg	1.8	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Dichlorodifluoromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,1-Dichloroethane	mg/kg	0.27	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,2-Dichloroethane	mg/kg	0.02	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,1-Dichloroethene	mg/kg	0.33	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
cis-1,2-Dichloroethene	mg/kg	0.25	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
trans-1,2-Dichloroethene	mg/kg	0.19	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,2-Dichloropropane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,3-Dichloropropane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
2,2-Dichloropropane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,1-Dichloropropene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)

**ONEIDA COUNTY BUSINESS PARK EXPANSION  
Intersection of Judd Road and Airport Road  
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**TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS**

**Date Sampled: 01/30/2014**

Client Sample ID:	Unit	NY SCO - Unrestricted Use (6NYCRR 375-6 12/06) <sup>1</sup>	Recommended Soil Cleanup Level <sup>2</sup> (mg/kg)	B-2 (0-4')	B-4 (4'-4.5')	B-4 (4.5'-8')	B-7 (4'-7.8')	B-9 (4'-6')	TP-2	TP-4
Lab Sample ID:				MC28084-3	MC28084-4	MC28084-5	MC28084-6	MC28084-7	MC28084-1	MC28084-2
<b>GC/MS Volatiles (SW846 8260C)</b>										
cis-1,3-Dichloropropene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
trans-1,3-Dichloropropene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Ethylbenzene	mg/kg	1	1	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.0024)	ND (0.0023)
Hexachlorobutadiene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
2-Hexanone	mg/kg	NS	NS	-	-	-	-	-	ND (0.012)	ND (0.011)
Iodomethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Isopropylbenzene	mg/kg	NS	2.3	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
p-Isopropyltoluene	mg/kg	NS	10	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
Methyl Tert Butyl Ether	mg/kg	0.93	0.93	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.0024)	ND (0.0023)
4-Methyl-2-pentanone (MIBK)	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Methylene bromide	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Methylene chloride	mg/kg	0.05	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Naphthalene	mg/kg	12	12	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
n-Propylbenzene	mg/kg	3.9	3.9	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
Styrene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,1,1,2-Tetrachloroethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,1,2,2-Tetrachloroethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Tetrachloroethene	mg/kg	1.3	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Toluene	mg/kg	0.7	0.7	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
1,2,3-Trichlorobenzene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,2,4-Trichlorobenzene	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,1,1-Trichloroethane	mg/kg	0.68	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,1,2-Trichloroethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Trichloroethene	mg/kg	0.47	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Trichlorofluoromethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
1,2,3-Trichloropropane	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
1,2,4-Trimethylbenzene	mg/kg	3.6	3.6	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
1,3,5-Trimethylbenzene	mg/kg	8.4	8.4	ND (0.34)	ND (0.31)	ND (0.30)	ND (0.29)	ND (0.28)	ND (0.0061)	ND (0.0057)
Vinyl Acetate	mg/kg	NS	NS	-	-	-	-	-	ND (0.0061)	ND (0.0057)
Vinyl chloride	mg/kg	0.02	NS	-	-	-	-	-	ND (0.0024)	ND (0.0023)
Xylene (total)	mg/kg	0.26	0.26	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.11)	ND (0.0024)	ND (0.0023)
<b>GC/MS Semi-Volatiles (SW846 8270D)</b>										
Acenaphthene	mg/kg	20	20	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Acenaphthylene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Anthracene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)

**ONEIDA COUNTY BUSINESS PARK EXPANSION**  
**Intersection of Judd Road and Airport Road**  
**Town of Whitestown, Oneida County, New York**

**TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS**

Date Sampled: 01/30/2014

Client Sample ID:	Unit	NY SCO - Unrestricted Use (6NYCRR 375-6 12/06) <sup>1</sup>	Recommended Soil Cleanup Level <sup>2</sup> (mg/kg)	B-2 (0-4')	B-4 (4'-4.5')	B-4 (4.5'-8')	B-7 (4'-7.8')	B-9 (4'-6')	TP-2	TP-4
Lab Sample ID:				MC28084-3	MC28084-4	MC28084-5	MC28084-6	MC28084-7	MC28084-1	MC28084-2
<b>GC/MS Semi-Volatiles (SW846 8270D)</b>										
Benzidine	mg/kg	NS	NS	-	-	-	-	-	ND (1.2)	ND (1.1)
Benzo(a)anthracene	mg/kg	1	1	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(a)pyrene	mg/kg	1	1	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(b)fluoranthene	mg/kg	1	1	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(g,h,i)perylene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Benzo(k)fluoranthene	mg/kg	0.8	0.8	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
4-Bromophenyl phenyl ether	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Butyl benzyl phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
2-Chloronaphthalene	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
4-Chloroaniline	mg/kg	NS	NS	-	-	-	-	-	ND (0.58)	ND (0.57)
Chrysene	mg/kg	1	1	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
bis(2-Chloroethoxy)methane	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
bis(2-Chloroethyl)ether	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
bis(2-Chloroisopropyl)ether	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
4-Chlorophenyl phenyl ether	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
1,2-Dichlorobenzene	mg/kg	1.1	1.1	-	-	-	-	-	ND (0.29)	ND (0.28)
1,2-Diphenylhydrazine	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
1,3-Dichlorobenzene	mg/kg	2.4	2.4	-	-	-	-	-	ND (0.29)	ND (0.28)
1,4-Dichlorobenzene	mg/kg	1.8	1.8	-	-	-	-	-	ND (0.29)	ND (0.28)
2,4-Dinitrotoluene	mg/kg	NS	NS	-	-	-	-	-	ND (0.58)	ND (0.57)
2,6-Dinitrotoluene	mg/kg	NS	NS	-	-	-	-	-	ND (0.58)	ND (0.57)
3,3'-Dichlorobenzidine	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Dibenzo(a,h)anthracene	mg/kg	0.33	0.33	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Di-n-butyl phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Di-n-octyl phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Diethyl phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Dimethyl phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
bis(2-Ethylhexyl)phthalate	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Fluoranthene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Fluorene	mg/kg	30	30	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Hexachlorobenzene	mg/kg	0.33	0.33	-	-	-	-	-	ND (0.29)	ND (0.28)
Hexachlorobutadiene	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Hexachlorocyclopentadiene	mg/kg	NS	NS	-	-	-	-	-	ND (0.58)	ND (0.57)
Hexachloroethane	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)

**ONEIDA COUNTY BUSINESS PARK EXPANSION**  
**Intersection of Judd Road and Airport Road**  
**Town of Whitestown, Oneida County, New York**

**TABLE 2 - SUMMARY OF SOIL ANALYTICAL RESULTS**

Date Sampled: 01/30/2014

Client Sample ID:	Unit	NY SCO - Unrestricted Use (6NYCRR 375-6 12/06) <sup>1</sup>	Recommended Soil Cleanup Level <sup>2</sup> (mg/kg)	B-2 (0-4')	B-4 (4'-4.5')	B-4 (4.5'-8')	B-7 (4'-7.8')	B-9 (4'-6')	TP-2	TP-4
Lab Sample ID:				MC28084-3	MC28084-4	MC28084-5	MC28084-6	MC28084-7	MC28084-1	MC28084-2
<b>GC/MS Semi-Volatiles (SW846 8270D)</b>										
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	0.5	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Isophorone	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Naphthalene	mg/kg	12	12	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Nitrobenzene	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
n-Nitrosodimethylamine	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
N-Nitroso-di-n-propylamine	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
N-Nitrosodiphenylamine	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
Phenanthrene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
Pyrene	mg/kg	100	100	ND (0.12)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.12)	ND (0.11)
1,2,4-Trichlorobenzene	mg/kg	NS	NS	-	-	-	-	-	ND (0.29)	ND (0.28)
<b>GC Semi-Volatiles (SW846 8082)</b>										
Aroclor 1016	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1221	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1232	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1242	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1248	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1254	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
Aroclor 1260	mg/kg	0.1	NS	-	-	-	-	-	ND (0.039)	ND (0.037)
<b>Metals Analysis</b>										
Arsenic	mg/kg	13	NS	-	-	-	-	-	6.7	9.8
Barium	mg/kg	350	NS	-	-	-	-	-	57.3	40.6
Cadmium	mg/kg	2.5	NS	-	-	-	-	-	<0.38	0.39
Chromium	mg/kg	NS	NS	-	-	-	-	-	15.0 <sup>a</sup>	21.6
Lead	mg/kg	63	NS	-	-	-	-	-	8.2	12.1
Mercury	mg/kg	0.18	NS	-	-	-	-	-	0.071	0.045
Selenium	mg/kg	3.9	NS	-	-	-	-	-	<0.96	<0.92
Silver	mg/kg	2	NS	-	-	-	-	-	<0.96 <sup>a</sup>	<0.46
<b>General Chemistry</b>										
Solids, Percent	%	NS	NS	84.6	86.7	89.8	90.4	87.5	84.1	86.8

Notes:

Legend: Hit Exceed

<sup>1</sup>New York Codes, Rules and Regulations, Title 6 (6NYCRR) Part 375-6 Remedial Program Soil Cleanup Objectives.

<sup>2</sup>DEC Commissioner Policy, CP-51 / Soil Cleanup Guidance, Tables 2 and 3, issued October 21, 2010.

mg/kg milligrams per kilogram, equivalent to parts per million (ppm)

ND Not detected less than

NS No State Standard

- Not Analyzed

**ONEIDA COUNTY BUSINESS PARK EXPANSION**  
**Intersection of Judd Road and Airport Road**  
**Town of Whitestown, Oneida County, New York**

**TABLE 3 - SUMMARY OF GROUNDWATER ANALYTICAL RESULTS**

Date Sampled: 01/30/2014

Client Sample ID:	Unit	State Standards <sup>1</sup> (µg/L)	B-1/TW	B-4/TW	B-5/TW	B-8/TW
Lab Sample ID:			MC28083-1	MC28083-2	MC28083-3	MC28083-4
<b>GC/MS Volatiles (SW846 8260C)</b>						
Benzene	µg/L	1	ND (0.50)	5.8	ND (0.50)	ND (0.50)
n-Butylbenzene	µg/L	5	ND (5.0)	50.6	ND (5.0)	ND (5.0)
sec-Butylbenzene	µg/L	5	ND (5.0)	17.7	ND (5.0)	ND (5.0)
tert-Butylbenzene	µg/L	5	ND (5.0)	ND (5.0)	ND (5.0)	ND (5.0)
Ethylbenzene	µg/L	5	ND (1.0)	33.6	ND (1.0)	ND (1.0)
Isopropylbenzene	µg/L	5	ND (5.0)	31.7	ND (5.0)	ND (5.0)
p-Isopropyltoluene	µg/L	5	ND (5.0)	6.8	ND (5.0)	ND (5.0)
Methyl Tert Butyl Ether	µg/L	10	ND (1.0)	ND (1.0)	ND (1.0)	ND (1.0)
Naphthalene	µg/L	10	ND (5.0)	18.4	ND (5.0)	ND (5.0)
n-Propylbenzene	µg/L	5	ND (5.0)	96.2	ND (5.0)	ND (5.0)
Toluene	µg/L	5	ND (1.0)	2.2	ND (1.0)	ND (1.0)
1,2,4-Trimethylbenzene	µg/L	5	ND (5.0)	223	ND (5.0)	ND (5.0)
1,3,5-Trimethylbenzene	µg/L	5	ND (5.0)	73.1	ND (5.0)	ND (5.0)
m,p-Xylene	µg/L	*	ND (1.0)	56.4	ND (1.0)	ND (1.0)
o-Xylene	µg/L	5	ND (1.0)	5.3	ND (1.0)	ND (1.0)
<b>GC/MS Semi-Volatiles (SW846 8270D)</b>						
Acenaphthene	µg/L	20	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Acenaphthylene	µg/L	20	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Anthracene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Benzo(a)anthracene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Benzo(a)pyrene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Benzo(b)fluoranthene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Benzo(g,h,i)perylene	µg/L	5	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Benzo(k)fluoranthene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Chrysene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Dibenzo(a,h)anthracene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Fluoranthene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Fluorene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Indeno(1,2,3-cd)pyrene	µg/L	0.002	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Naphthalene	µg/L	10	ND (2.1)	15.8	ND (2.0)	ND (2.0)
Phenanthrene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)
Pyrene	µg/L	50	ND (2.1)	ND (2.0)	ND (2.0)	ND (2.0)

Notes:

Legend: Hit Exceed

<sup>1</sup>DEC Division of Water's Technical and Operational Guidance Series (TOGS) 1.1.1, *Ambient Water Quality Standards and Guidance Values*, reissued June 1998.

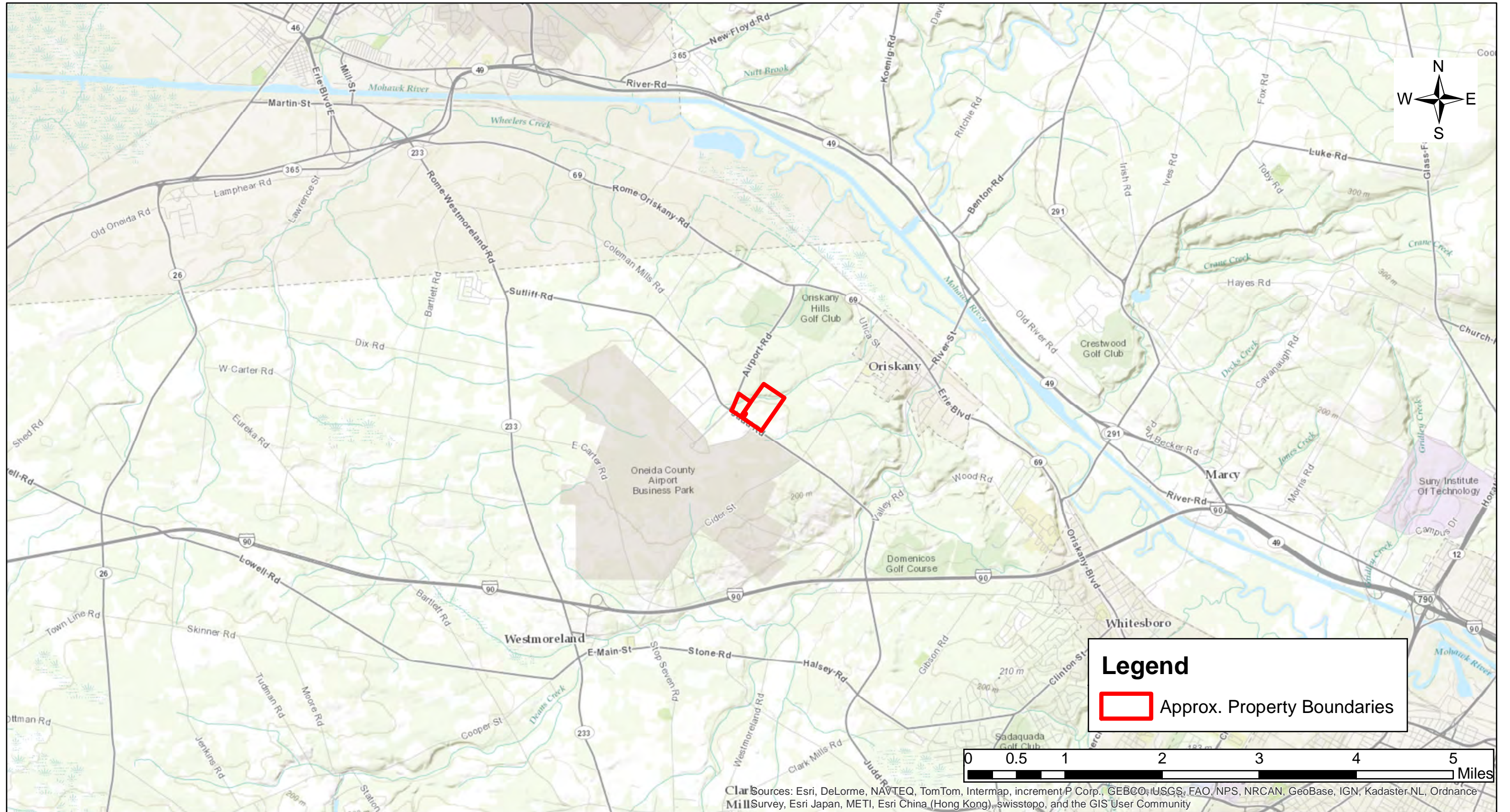
µg/L micrograms per liter, equivalent to parts per billion (ppb)

ND Not detected, less than

\* State standard is 5 µg/L for each xylene isomer.

# FIGURES





Map Sources: Esri, DeLorme, NAVTEQ, TomTom, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, and the GIS User Community

**PLUMLEY ENGINEERING**  
 PLUMLEY ENGINEERING, P.C.  
 8232 LOOP ROAD  
 BALDWINVILLE, NY 13027  
 TELEPHONE: (315) 638-8587  
 FAX: (315) 638-9740  
 WWW.PLUMLEYENG.COM  
*Civil and Environmental Engineering*

PROJECT:	<b>JUDD ROAD PHASE II ESA</b>
CLIENT:	MOHAWK VALLEY EDGE
LOCATION:	TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK

TITLE:	<b>SITE LOCATION MAP</b>
PROJECT No.:	2014005
DATE:	JANUARY 2014

FIGURE No.	<b>1</b>
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PLUMLEY ENGINEERING, P.C.  
 8232 LOOP ROAD  
 BALDWINVILLE, NY 13027  
 TELEPHONE: (315) 638-8587  
 FAX: (315) 638-9740  
 WWW.PLUMLEYENG.COM

*Civil and Environmental Engineering*

PROJECT: **JUDD ROAD PHASE II ESA**

CLIENT: **MOHAWK VALLEY EDGE**

LOCATION: **TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK**

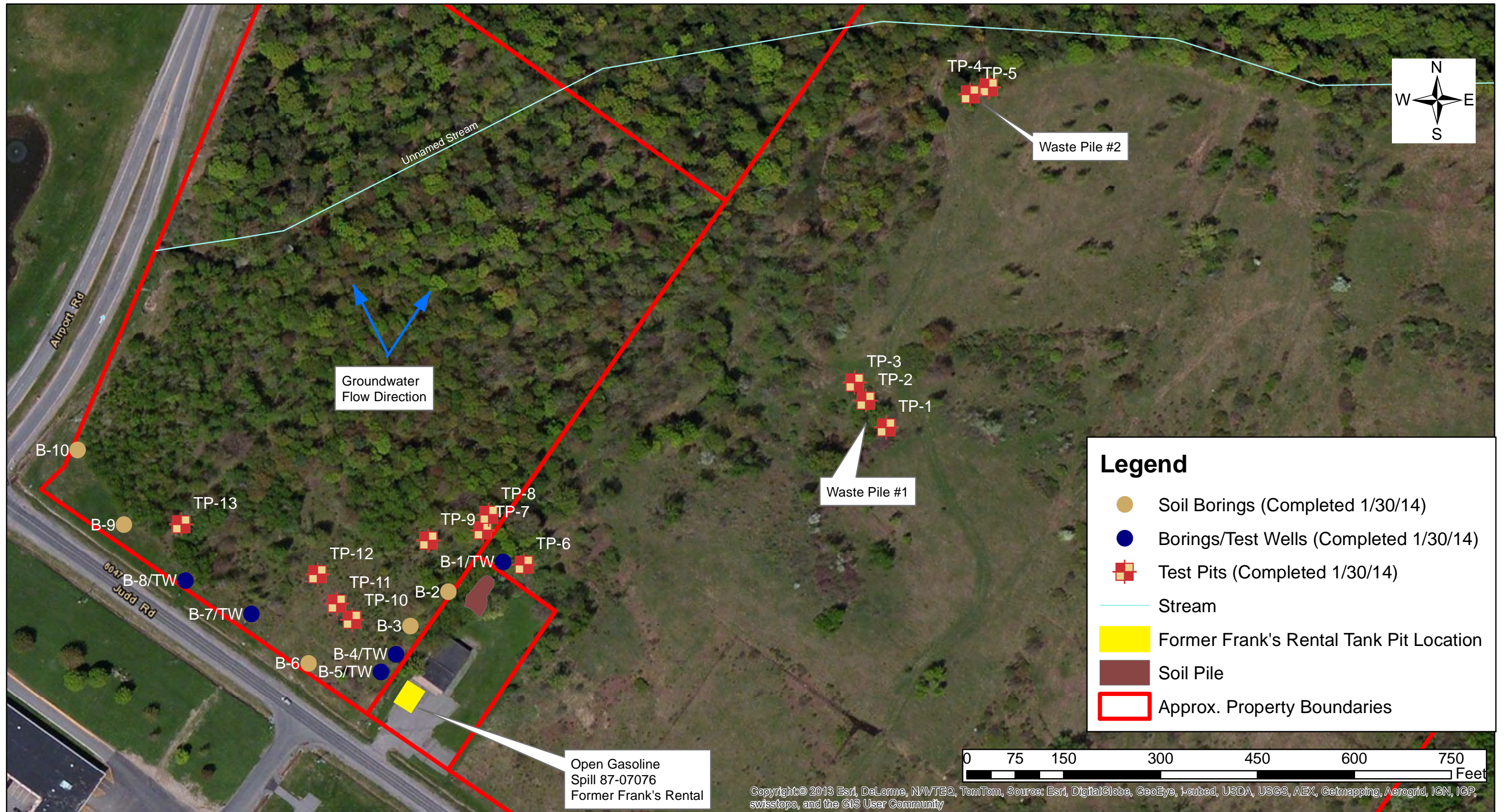
TITLE: **AERIAL PHOTO**

PROJECT No.: **2014005**

DATE: **JANUARY 2014**

FIGURE No.  
**2**

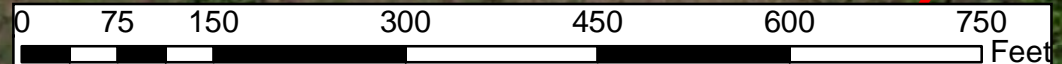




**Legend**

- Soil Borings (Completed 1/30/14)
- Borings/Test Wells (Completed 1/30/14)
- Test Pits (Completed 1/30/14)
- Stream
- Former Frank's Rental Tank Pit Location
- Soil Pile
- Approx. Property Boundaries

Open Gasoline Spill 87-07076  
Former Frank's Rental



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**PLUMLEY ENGINEERING**  
Civil and Environmental Engineering

PLUMLEY ENGINEERING, P.C.  
8232 LOOP ROAD  
BALDWINVILLE, NY 13027

TELEPHONE: (315) 638-8587  
FAX: (315) 638-9740  
WWW.PLUMLEYENG.COM

PROJECT:	<b>JUDD ROAD PHASE II ESA</b>
CLIENT:	MOHAWK VALLEY EDGE
LOCATION:	TOWN OF WHITESTOWN, ONEIDA COUNTY, NEW YORK

TITLE:	<b>INVESTIGATION SITE PLAN</b>
PROJECT No.:	2014005
DATE:	JANUARY 2014

FIGURE No.	<b>3</b>
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# APPENDICES

**APPENDIX A**

**BORING LOGS**

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
LOCATION Whitestown, NY  
DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-1  
SURF. EL. NA  
JOB NO. 2014005.001  
GROUNDWATER DEPTH WHILE DRILLING ±2'-3'  
BEFORE CASING REMOVED NA  
AFTER CASING REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved Macro-core samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
▼ 5	0 - 4	1	NP	NP	0	Brown moist-wet fine Sand and Silt, trace fine gravel	±4.4
						Brown wet-moist fine Sand, little-some silt, trace fine gravel trace clay	±7.0
10	4 - 8	2	NP	NP	0	Brown wet-moist Silt, little fine sand, trace clay, with weathered shale fragments	
15	8-11	3	NP	NP	0	Boring Refusal @	±11.0
						<b>Additional Notes:</b> Installed temporary 1" well (B-1/TW) screen in open hole to DTW from ground surface in well at 1.8' Left well in place to be removed at a later date.	±11'
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
LOCATION Whitestown, NY  
DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-2  
SURF. EL. NA  
JOB NO. 2014005.001  
GROUNDWATER DEPTH WHILE DRILLING ±8'-9'  
BEFORE CASING REMOVED NA  
AFTER CASING REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved *Macro-core* samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.3
5	0 - 4	1	NP	NP	0	Brown dry fine Sand and Silt, trace fine gravel	
▼ 10	4 - 8	2	NP	NP	0		±8.5
	8-10.5	3	NP	NP	0	Brown wet-moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments	
15						Boring Refusal @	±10.5
						<b>Additional Notes:</b> Backfilled borehole with macro-core samples	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

**SITE:** Judd Road, East Parcel  
**LOCATION** Whitestown, NY  
**DATE STARTED:** 1/30/14

**DATE COMPLETED:** 1/30/14

**HOLE NO.** B-3  
**SURF. EL.** NA  
**JOB NO.** 2014005.001  
**GROUNDWATER DEPTH WHILE DRILLING** ±7'  
**BEFORE CASING REMOVED** NA  
**AFTER CASING REMOVED** NA

**N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST**

**CASING TYPE** Track rig with direct push Geoprobe

**SHEET 1 OF 1**

2"x48" sleeved *Macro-core* samplers used

**Logged by:** DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
						Brown moist-wet fine Sand and Silt, trace fine gravel	
5	0 - 4	1	NP	NP	0		±4.0
						Brown wet-moist Silt and fine Sand, little-few clay, trace fine gravel trace cobbles	
10	4 - 8	2	NP	NP	0		
	8-9.5	3	NP	NP	0		
						Boring Refusal @	±9.5
15							
						<b>Additional Notes:</b> Backfilled borehole with macro-core samples	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

**SITE:** Judd Road, East Parcel  
**LOCATION** Whitestown, NY  
**DATE STARTED:** 1/30/14

**DATE COMPLETED:** 1/30/14

**HOLE NO.** B-4  
**SURF. EL.** NA  
**JOB NO.** 2014005.001  
**GROUNDWATER DEPTH WHILE DRILLING** ±3.5'  
**BEFORE CASING REMOVED** NA  
**AFTER CASING REMOVED** NA

**N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST**

**CASING TYPE** Track rig with direct push Geoprobe

**SHEET** 1 OF 1

2"x48" sleeved *Macro-core* samplers used

**Logged by:** DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
5						Top Soil	±0.5
						Brown moist-wet fine Sand and Silt, trace fine gravel	±3.0
10	0 - 4	1	P	Trace	0/1.1	Brown wet Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments (weathered gasoline odor and trace staining @ 3.5'-4.5')	
	4 - 8	2	P	Trace	1.2/0	3.5'-4.0' - 1.1 ppm	
	8-9	3	NP	NP	0	4.0'-4.5' - 1.2 ppm	
15						Boring Refusal @	±9.0'
						<b>Additional Notes:</b> Installed temporary 1" well (B-4/TW) screen in open hole to ±9' DTW from ground surface in well at 1.3' Left well in place to be removed at a later date.	
						<b>Notes:</b> NA Not Available P Present NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
LOCATION Whitestown, NY  
DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-5  
SURF. EL. NA  
JOB NO. 2014005.001  
GROUNDWATER DEPTH WHILE DRILLING ±3'  
BEFORE CASING REMOVED NA  
AFTER CASING REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved Macro-core samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.6
						Brown moist-wet fine Sand and Silt, trace fine gravel	±3.0
5	0 - 4	1	NP	NP	0	Brown wet-moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments	+5.0
10	4 - 8	2	NP	NP	0	Brown/grey wet-moist Silt (organics), fine-medium Sand, trace fine-medium gravel with weathered shale fragments	
15	8-11	3	NP	NP	0	Boring Refusal @	±11.0'
						<b>Additional Notes:</b> Installed temporary 1" well (B-5/TW) screen in open hole to DTW from ground surface in well at 1.5' Left well in place to be removed at a later date.	±9'
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	



**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

**SITE:** Judd Road, East Parcel  
**LOCATION** Whitestown, NY  
**DATE STARTED:** 1/30/14

**DATE COMPLETED:** 1/30/14

**HOLE NO.** B-6  
**SURF. EL.** NA  
**JOB NO.** 2014005.001  
**GROUNDWATER DEPTH WHILE DRILLING** ±3'  
**BEFORE CASING REMOVED** NA  
**AFTER CASING REMOVED** NA

**N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST**

**CASING TYPE** Track rig with direct push Geoprobe

**SHEET 1 OF 1**

2"x48" sleeved *Macro-core* samplers used

**Logged by:** DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
▼ 5	0 - 4	1	NP	NP	0	Brown moist-wet fine Sand and Silt, trace fine gravel	±4.0
	4 - 6	2	NP	NP	0	Brown wet-moist Silt and fine Sand, little-few clay, trace fine gravel trace cobbles	
10						Boring Refusal @	±6.0'
15							
						<b>Additional Notes:</b> Backfilled borehole with macro-core samples	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

**SITE:** Judd Road, East Parcel  
**LOCATION** Whitestown, NY  
**DATE STARTED:** 1/30/14

**DATE COMPLETED:** 1/30/14

**HOLE NO.** B-7  
**SURF. EL.** NA  
**JOB NO.** 2014005.001  
**GROUNDWATER DEPTH WHILE DRILLING** Moist  
**BEFORE CASING REMOVED** NA  
**AFTER CASING REMOVED** NA

**N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST**

**CASING TYPE** Track rig with direct push Geoprobe

**SHEET 1 OF 1**

2"x48" sleeved *Macro-core* samplers used

**Logged by:** DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
						Brown dry fine Sand and Silt, trace fine gravel	±3.5
5	0 - 4	1	NP	NP	0	Brown moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments	
10	4 - 7.8	2	NP	NP	0		
						Boring Refusal @	±7.8'
15							
						<b>Additional Notes:</b> Installed temporary 1" well (B-7/TW) screen in open hole to ±7.8' Well was dry to 7.8' Left well in place to be removed at a later date.	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
LOCATION Whitestown, NY  
DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-8  
SURF. EL. NA  
JOB NO. 2014005.001  
GROUNDWATER DEPTH  
WHILE DRILLING ±6'  
BEFORE CASING  
REMOVED NA  
AFTER CASING  
REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved *Macro-core* samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
						Brown dry fine Sand and Silt, trace fine gravel	±2.8
5	0 - 4	1	NP	NP	0	Brown moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles	±5.8
10	4 - 7.6	2	NP	NP	0	Brown wet fine Sand, some silt, trace fine-coarse gravel, trace of weathered shale fragments	
						Boring Refusal @	±7.6'
15							
						<b>Additional Notes:</b> Installed temporary 1" well (B-8/TW) screen in open hole to DTW from ground surface in well at 3.2' Left well in place to be removed at a later date.	±7.6'
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
 LOCATION Whitestown, NY  
 DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-9  
 SURF. EL. NA  
 JOB NO. 2014005.001  
 GROUNDWATER DEPTH WHILE DRILLING ±5.5'  
 BEFORE CASING REMOVED NA  
 AFTER CASING REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
 30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved Macro-core samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
						Brown dry fine Sand and Silt, trace fine gravel	±2.8
5	0 - 4	1	NP	NP	0	Brown moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments	
	4 - 6.2	2	NP	NP	0		
						Boring Refusal @	±6.2'
10							
15							
						<b>Additional Notes:</b> Backfilled borehole with macro-core samples	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

**PLUMLEY ENGINEERING, P.C.  
TEST BORING LOG**

SITE: Judd Road, East Parcel  
 LOCATION Whitestown, NY  
 DATE STARTED: 1/30/14

DATE COMPLETED: 1/30/14

HOLE NO. B-10  
 SURF. EL. NA  
 JOB NO. 2014005.001  
 GROUNDWATER DEPTH WHILE DRILLING Moist  
 BEFORE CASING REMOVED NA  
 AFTER CASING REMOVED NA

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING  
 30" -- ASTM D-1586, STANDARD PENETRATION TEST

CASING TYPE Track rig with direct push Geoprobe

SHEET 1 OF 1

2"x48" sleeved Macro-core samplers used

Logged by: DTH

DEPTH	SAMPLE DRIVE DEPTH (Ft.)	Sample Number	Odor	Staining	PID (ppm)	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH (Ft.)
						Top Soil	±0.5
5	0 - 4	1	NP	NP	0	Brown dry fine Sand and Silt, trace fine gravel	±4.5
	4 - 7	2	NP	NP	0	Brown moist Silt, little fine-medium sand, with fine-medium gravel, trace cobbles and weathered shale fragments	
10						Boring Refusal @	±7.2'
15							
						<b>Additional Notes:</b> Backfilled borehole with macro-core samples	
						<b>Notes:</b> NA Not Available NP Not Present PID Photoionization Meter Reading ppm parts per million	
						<b>Weather:</b> Mid to lower 20°F's	

# **APPENDIX B**

## **LABORATORY REPORTS**

**Technical Report for**

**Plumley Environmental Engineers**

Judd Road and Airport Road, Whitestown, NY

2014005.001

Accutest Job Number: MC28084

Sampling Date: 01/30/14

**Report to:**

**dhudson@plumleyeng.com**

**ATTN: Distribution6**

**Total number of pages in report: 32**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand  
Lab Director

**Client Service contact: Frank DAgostino 508-481-6200**

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220)  
DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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## Sample Summary

Plumley Environmental Engineers

**Job No:** MC28084

Judd Road and Airport Road, Whitestown, NY

Project No: 2014005.001

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC28084-1	01/30/14	00:00 DTH	02/04/14	SO	Soil	TP#2
MC28084-2	01/30/14	00:00 DTH	02/04/14	SO	Soil	TP#4
MC28084-3	01/30/14	10:15 DTH	02/04/14	SO	Soil	B-2(0-4')
MC28084-4	01/30/14	11:30 DTH	02/04/14	SO	Soil	B-4(4'-4.5')
MC28084-5	01/30/14	11:35 DTH	02/04/14	SO	Soil	B-4(4.5'-8')
MC28084-6	01/30/14	11:00 DTH	02/04/14	SO	Soil	B-7(4'-7.8')
MC28084-7	01/30/14	11:40 DTH	02/04/14	SO	Soil	B-9(4-6')

---

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

## Summary of Hits

**Job Number:** MC28084  
**Account:** Plumley Environmental Engineers  
**Project:** Judd Road and Airport Road, Whitestown, NY  
**Collected:** 01/30/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**MC28084-1 TP#2**

Arsenic	6.7	0.96			mg/kg	SW846 6010C
Barium	57.3	4.8			mg/kg	SW846 6010C
Chromium <sup>a</sup>	15.0	1.9			mg/kg	SW846 6010C
Lead	8.2	0.96			mg/kg	SW846 6010C
Mercury	0.071	0.038			mg/kg	SW846 7471B

**MC28084-2 TP#4**

Arsenic	9.8	0.92			mg/kg	SW846 6010C
Barium	40.6	4.6			mg/kg	SW846 6010C
Cadmium	0.39	0.37			mg/kg	SW846 6010C
Chromium	21.6	0.92			mg/kg	SW846 6010C
Lead	12.1	0.92			mg/kg	SW846 6010C
Mercury	0.045	0.037			mg/kg	SW846 7471B

**MC28084-3 B-2(0-4')**

No hits reported in this sample.

**MC28084-4 B-4(4'-4.5')**

No hits reported in this sample.

**MC28084-5 B-4(4.5'-8')**

No hits reported in this sample.

**MC28084-6 B-7(4'-7.8')**

No hits reported in this sample.

**MC28084-7 B-9(4-6')**

No hits reported in this sample.

(a) Elevated RL due to dilution required for matrix interference.

Sample Results

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Report of Analysis

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## Report of Analysis

<b>Client Sample ID:</b> TP#2		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.1
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63128.D	1	02/06/14	KD	n/a	n/a	MSM2212
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	4.91 g	5.0 ml
Run #2		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.012	mg/kg	
71-43-2	Benzene	ND	0.00061	mg/kg	
108-86-1	Bromobenzene	ND	0.0061	mg/kg	
74-97-5	Bromochloromethane	ND	0.0061	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0024	mg/kg	
75-25-2	Bromoform	ND	0.0024	mg/kg	
74-83-9	Bromomethane	ND	0.0024	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.012	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0061	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0061	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0061	mg/kg	
75-15-0	Carbon disulfide	ND	0.0061	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0024	mg/kg	
108-90-7	Chlorobenzene	ND	0.0024	mg/kg	
75-00-3	Chloroethane	ND	0.0061	mg/kg	
67-66-3	Chloroform	ND	0.0024	mg/kg	
74-87-3	Chloromethane	ND	0.0061	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0061	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0061	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0061	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0024	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0024	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0024	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0024	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0024	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0024	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0024	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0024	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0024	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0024	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0024	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0024	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#2		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.1
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	0.0061	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0061	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0061	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0024	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0024	mg/kg	
100-41-4	Ethylbenzene	ND	0.0024	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0061	mg/kg	
591-78-6	2-Hexanone	ND	0.012	mg/kg	
74-88-4	Iodomethane	ND	0.0061	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0061	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0061	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0024	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0061	mg/kg	
74-95-3	Methylene bromide	ND	0.0061	mg/kg	
75-09-2	Methylene chloride	ND	0.0024	mg/kg	
91-20-3	Naphthalene	ND	0.0061	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0061	mg/kg	
100-42-5	Styrene	ND	0.0061	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0061	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0024	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0024	mg/kg	
108-88-3	Toluene	ND	0.0061	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0061	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0061	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0024	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0024	mg/kg	
79-01-6	Trichloroethene	ND	0.0024	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0024	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0061	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0061	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0061	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0061	mg/kg	
75-01-4	Vinyl chloride	ND	0.0024	mg/kg	
	m,p-Xylene	ND	0.0024	mg/kg	
95-47-6	o-Xylene	ND	0.0024	mg/kg	
1330-20-7	Xylene (total)	ND	0.0024	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		70-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

3.1  
3

<b>Client Sample ID:</b> TP#2		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.1
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

**VOA 8260 List**

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	91%		70-130%
460-00-4	4-Bromofluorobenzene	82%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#2		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.1
<b>Method:</b> SW846 8270D SW846 3546		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17618.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

## BN PPL List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.12	mg/kg	
208-96-8	Acenaphthylene	ND	0.12	mg/kg	
120-12-7	Anthracene	ND	0.12	mg/kg	
92-87-5	Benzidine	ND	1.2	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.12	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.12	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.12	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.12	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.29	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.29	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.29	mg/kg	
106-47-8	4-Chloroaniline	ND	0.58	mg/kg	
218-01-9	Chrysene	ND	0.12	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.29	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.29	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.29	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.29	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.29	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.29	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.29	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.29	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.58	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.58	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.29	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.12	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.29	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.29	mg/kg	
84-66-2	Diethyl phthalate	ND	0.29	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.29	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.29	mg/kg	
206-44-0	Fluoranthene	ND	0.12	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#2	
<b>Lab Sample ID:</b> MC28084-1	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8270D SW846 3546	<b>Percent Solids:</b> 84.1
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

## BN PPL List

CAS No.	Compound	Result	RL	Units	Q
86-73-7	Fluorene	ND	0.12	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.29	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.29	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.58	mg/kg	
67-72-1	Hexachloroethane	ND	0.29	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.12	mg/kg	
78-59-1	Isophorone	ND	0.29	mg/kg	
91-20-3	Naphthalene	ND	0.12	mg/kg	
98-95-3	Nitrobenzene	ND	0.29	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.29	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.29	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.29	mg/kg	
85-01-8	Phenanthrene	ND	0.12	mg/kg	
129-00-0	Pyrene	ND	0.12	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.29	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		30-130%
321-60-8	2-Fluorobiphenyl	95%		30-130%
1718-51-0	Terphenyl-d14	112%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

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3

<b>Client Sample ID:</b> TP#2	
<b>Lab Sample ID:</b> MC28084-1	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8082 SW846 3546	<b>Percent Solids:</b> 84.1
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34562.D	1	02/06/14	NK	02/04/14	OP36761	GBK1142
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

### PCB List

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.039	mg/kg	
11104-28-2	Aroclor 1221	ND	0.039	mg/kg	
11141-16-5	Aroclor 1232	ND	0.039	mg/kg	
53469-21-9	Aroclor 1242	ND	0.039	mg/kg	
12672-29-6	Aroclor 1248	ND	0.039	mg/kg	
11097-69-1	Aroclor 1254	ND	0.039	mg/kg	
11096-82-5	Aroclor 1260	ND	0.039	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	101%		30-150%
877-09-8	Tetrachloro-m-xylene	89%		30-150%
2051-24-3	Decachlorobiphenyl	106%		30-150%
2051-24-3	Decachlorobiphenyl	96%		30-150%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> TP#2		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.1
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

## Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.7	0.96	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Barium	57.3	4.8	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Cadmium	< 0.38	0.38	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Chromium <sup>a</sup>	15.0	1.9	mg/kg	2	02/06/14	02/10/14 EAL	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Lead	8.2	0.96	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Mercury	0.071	0.038	mg/kg	1	02/10/14	02/11/14 EAL	SW846 7471B <sup>2</sup>	SW846 7471B <sup>5</sup>
Selenium	< 0.96	0.96	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Silver <sup>a</sup>	< 0.96	0.96	mg/kg	2	02/06/14	02/10/14 EAL	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA16721
- (2) Instrument QC Batch: MA16723
- (3) Instrument QC Batch: MA16726
- (4) Prep QC Batch: MP22459
- (5) Prep QC Batch: MP22475

(a) Elevated RL due to dilution required for matrix interference.

RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> TP#4		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-2		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.8
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M63129.D	1	02/06/14	KD	n/a	n/a	MSM2212
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	5.09 g	5.0 ml
Run #2		

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
67-64-1	Acetone	ND	0.011	mg/kg	
71-43-2	Benzene	ND	0.00057	mg/kg	
108-86-1	Bromobenzene	ND	0.0057	mg/kg	
74-97-5	Bromochloromethane	ND	0.0057	mg/kg	
75-27-4	Bromodichloromethane	ND	0.0023	mg/kg	
75-25-2	Bromoform	ND	0.0023	mg/kg	
74-83-9	Bromomethane	ND	0.0023	mg/kg	
78-93-3	2-Butanone (MEK)	ND	0.011	mg/kg	
104-51-8	n-Butylbenzene	ND	0.0057	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.0057	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.0057	mg/kg	
75-15-0	Carbon disulfide	ND	0.0057	mg/kg	
56-23-5	Carbon tetrachloride	ND	0.0023	mg/kg	
108-90-7	Chlorobenzene	ND	0.0023	mg/kg	
75-00-3	Chloroethane	ND	0.0057	mg/kg	
67-66-3	Chloroform	ND	0.0023	mg/kg	
74-87-3	Chloromethane	ND	0.0057	mg/kg	
95-49-8	o-Chlorotoluene	ND	0.0057	mg/kg	
106-43-4	p-Chlorotoluene	ND	0.0057	mg/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.0057	mg/kg	
124-48-1	Dibromochloromethane	ND	0.0023	mg/kg	
106-93-4	1,2-Dibromoethane	ND	0.0023	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.0023	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.0023	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.0023	mg/kg	
75-71-8	Dichlorodifluoromethane	ND	0.0023	mg/kg	
75-34-3	1,1-Dichloroethane	ND	0.0023	mg/kg	
107-06-2	1,2-Dichloroethane	ND	0.0023	mg/kg	
75-35-4	1,1-Dichloroethene	ND	0.0023	mg/kg	
156-59-2	cis-1,2-Dichloroethene	ND	0.0023	mg/kg	
156-60-5	trans-1,2-Dichloroethene	ND	0.0023	mg/kg	
78-87-5	1,2-Dichloropropane	ND	0.0023	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#4	
<b>Lab Sample ID:</b> MC28084-2	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8260C	<b>Percent Solids:</b> 86.8
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

## VOA 8260 List

CAS No.	Compound	Result	RL	Units	Q
142-28-9	1,3-Dichloropropane	ND	0.0057	mg/kg	
594-20-7	2,2-Dichloropropane	ND	0.0057	mg/kg	
563-58-6	1,1-Dichloropropene	ND	0.0057	mg/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	0.0023	mg/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	0.0023	mg/kg	
100-41-4	Ethylbenzene	ND	0.0023	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.0057	mg/kg	
591-78-6	2-Hexanone	ND	0.011	mg/kg	
74-88-4	Iodomethane	ND	0.0057	mg/kg	
98-82-8	Isopropylbenzene	ND	0.0057	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.0057	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.0023	mg/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	0.0057	mg/kg	
74-95-3	Methylene bromide	ND	0.0057	mg/kg	
75-09-2	Methylene chloride	ND	0.0023	mg/kg	
91-20-3	Naphthalene	ND	0.0057	mg/kg	
103-65-1	n-Propylbenzene	ND	0.0057	mg/kg	
100-42-5	Styrene	ND	0.0057	mg/kg	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.0057	mg/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.0023	mg/kg	
127-18-4	Tetrachloroethene	ND	0.0023	mg/kg	
108-88-3	Toluene	ND	0.0057	mg/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	0.0057	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.0057	mg/kg	
71-55-6	1,1,1-Trichloroethane	ND	0.0023	mg/kg	
79-00-5	1,1,2-Trichloroethane	ND	0.0023	mg/kg	
79-01-6	Trichloroethene	ND	0.0023	mg/kg	
75-69-4	Trichlorofluoromethane	ND	0.0023	mg/kg	
96-18-4	1,2,3-Trichloropropane	ND	0.0057	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.0057	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.0057	mg/kg	
108-05-4	Vinyl Acetate	ND	0.0057	mg/kg	
75-01-4	Vinyl chloride	ND	0.0023	mg/kg	
	m,p-Xylene	ND	0.0023	mg/kg	
95-47-6	o-Xylene	ND	0.0023	mg/kg	
1330-20-7	Xylene (total)	ND	0.0023	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		70-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#4		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-2		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.8
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

### VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		70-130%
460-00-4	4-Bromofluorobenzene	81%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#4		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-2		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.8
<b>Method:</b> SW846 8270D SW846 3546		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17619.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.3 g	1.0 ml
Run #2		

## BN PPL List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
92-87-5	Benzidine	ND	1.1	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.11	mg/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	0.28	mg/kg	
85-68-7	Butyl benzyl phthalate	ND	0.28	mg/kg	
91-58-7	2-Chloronaphthalene	ND	0.28	mg/kg	
106-47-8	4-Chloroaniline	ND	0.57	mg/kg	
218-01-9	Chrysene	ND	0.11	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	0.28	mg/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	0.28	mg/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	0.28	mg/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	0.28	mg/kg	
95-50-1	1,2-Dichlorobenzene	ND	0.28	mg/kg	
122-66-7	1,2-Diphenylhydrazine	ND	0.28	mg/kg	
541-73-1	1,3-Dichlorobenzene	ND	0.28	mg/kg	
106-46-7	1,4-Dichlorobenzene	ND	0.28	mg/kg	
121-14-2	2,4-Dinitrotoluene	ND	0.57	mg/kg	
606-20-2	2,6-Dinitrotoluene	ND	0.57	mg/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	0.28	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
84-74-2	Di-n-butyl phthalate	ND	0.28	mg/kg	
117-84-0	Di-n-octyl phthalate	ND	0.28	mg/kg	
84-66-2	Diethyl phthalate	ND	0.28	mg/kg	
131-11-3	Dimethyl phthalate	ND	0.28	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	0.28	mg/kg	
206-44-0	Fluoranthene	ND	0.11	mg/kg	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#4	
<b>Lab Sample ID:</b> MC28084-2	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8270D SW846 3546	<b>Percent Solids:</b> 86.8
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

## BN PPL List

CAS No.	Compound	Result	RL	Units	Q
86-73-7	Fluorene	ND	0.11	mg/kg	
118-74-1	Hexachlorobenzene	ND	0.28	mg/kg	
87-68-3	Hexachlorobutadiene	ND	0.28	mg/kg	
77-47-4	Hexachlorocyclopentadiene	ND	0.57	mg/kg	
67-72-1	Hexachloroethane	ND	0.28	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	mg/kg	
78-59-1	Isophorone	ND	0.28	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
98-95-3	Nitrobenzene	ND	0.28	mg/kg	
62-75-9	n-Nitrosodimethylamine	ND	0.28	mg/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	0.28	mg/kg	
86-30-6	N-Nitrosodiphenylamine	ND	0.28	mg/kg	
85-01-8	Phenanthrene	ND	0.11	mg/kg	
129-00-0	Pyrene	ND	0.11	mg/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	0.28	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		30-130%
321-60-8	2-Fluorobiphenyl	92%		30-130%
1718-51-0	Terphenyl-d14	111%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> TP#4	
<b>Lab Sample ID:</b> MC28084-2	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8082 SW846 3546	<b>Percent Solids:</b> 86.8
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BK34563.D	1	02/06/14	NK	02/04/14	OP36761	GBK1142
Run #2							

Run #	Initial Weight	Final Volume
Run #1	15.8 g	10.0 ml
Run #2		

**PCB List**

CAS No.	Compound	Result	RL	Units	Q
12674-11-2	Aroclor 1016	ND	0.037	mg/kg	
11104-28-2	Aroclor 1221	ND	0.037	mg/kg	
11141-16-5	Aroclor 1232	ND	0.037	mg/kg	
53469-21-9	Aroclor 1242	ND	0.037	mg/kg	
12672-29-6	Aroclor 1248	ND	0.037	mg/kg	
11097-69-1	Aroclor 1254	ND	0.037	mg/kg	
11096-82-5	Aroclor 1260	ND	0.037	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	106%		30-150%
877-09-8	Tetrachloro-m-xylene	92%		30-150%
2051-24-3	Decachlorobiphenyl	106%		30-150%
2051-24-3	Decachlorobiphenyl	100%		30-150%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

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3

<b>Client Sample ID:</b> TP#4		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-2		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 86.8
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

### Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	9.8	0.92	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Barium	40.6	4.6	mg/kg	1	02/06/14	02/10/14 EAL	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Cadmium	0.39	0.37	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Chromium	21.6	0.92	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Lead	12.1	0.92	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>
Mercury	0.045	0.037	mg/kg	1	02/10/14	02/11/14 EAL	SW846 7471B <sup>2</sup>	SW846 7471B <sup>5</sup>
Selenium	< 0.92	0.92	mg/kg	1	02/06/14	02/10/14 EAL	SW846 6010C <sup>3</sup>	SW846 3050B <sup>4</sup>
Silver	< 0.46	0.46	mg/kg	1	02/06/14	02/07/14 EAL	SW846 6010C <sup>1</sup>	SW846 3050B <sup>4</sup>

- (1) Instrument QC Batch: MA16721
- (2) Instrument QC Batch: MA16723
- (3) Instrument QC Batch: MA16726
- (4) Prep QC Batch: MP22459
- (5) Prep QC Batch: MP22475

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RL = Reporting Limit

## Report of Analysis

<b>Client Sample ID:</b> B-2(0-4')		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-3		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G134926.D	1	02/05/14	JM	n/a	n/a	MSG5200
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.1 g	10.0 ml	100 ul
Run #2			

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.034	mg/kg	
104-51-8	n-Butylbenzene	ND	0.34	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.34	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.34	mg/kg	
100-41-4	Ethylbenzene	ND	0.14	mg/kg	
98-82-8	Isopropylbenzene	ND	0.34	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.34	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.14	mg/kg	
91-20-3	Naphthalene	ND	0.34	mg/kg	
103-65-1	n-Propylbenzene	ND	0.34	mg/kg	
108-88-3	Toluene	ND	0.34	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.34	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.34	mg/kg	
	m,p-Xylene	ND	0.14	mg/kg	
95-47-6	o-Xylene	ND	0.14	mg/kg	
1330-20-7	Xylene (total)	ND	0.14	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	116%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> B-2(0-4')		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-3		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 84.6
<b>Method:</b> SW846 8270D SW846 3546		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17620.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

### BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.12	mg/kg	
208-96-8	Acenaphthylene	ND	0.12	mg/kg	
120-12-7	Anthracene	ND	0.12	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.12	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.12	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.12	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.12	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.12	mg/kg	
218-01-9	Chrysene	ND	0.12	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.12	mg/kg	
206-44-0	Fluoranthene	ND	0.12	mg/kg	
86-73-7	Fluorene	ND	0.12	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.12	mg/kg	
91-20-3	Naphthalene	ND	0.12	mg/kg	
85-01-8	Phenanthrene	ND	0.12	mg/kg	
129-00-0	Pyrene	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		30-130%
321-60-8	2-Fluorobiphenyl	93%		30-130%
1718-51-0	Terphenyl-d14	114%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-4(4' -4.5')	<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-4	<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 86.7
<b>Method:</b> SW846 8260C	
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G134927.D	1	02/05/14	JM	n/a	n/a	MSG5200
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.8 g	10.0 ml	100 ul
Run #2			

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.031	mg/kg	
104-51-8	n-Butylbenzene	ND	0.31	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.31	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.31	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
98-82-8	Isopropylbenzene	ND	0.31	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.31	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.12	mg/kg	
91-20-3	Naphthalene	ND	0.31	mg/kg	
103-65-1	n-Propylbenzene	ND	0.31	mg/kg	
108-88-3	Toluene	ND	0.31	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.31	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.31	mg/kg	
	m,p-Xylene	ND	0.12	mg/kg	
95-47-6	o-Xylene	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%		70-130%
2037-26-5	Toluene-D8	115%		70-130%
460-00-4	4-Bromofluorobenzene	110%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-4(4' -4.5')	
<b>Lab Sample ID:</b> MC28084-4	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8270D SW846 3546	<b>Percent Solids:</b> 86.7
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17621.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

## BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.11	mg/kg	
218-01-9	Chrysene	ND	0.11	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
206-44-0	Fluoranthene	ND	0.11	mg/kg	
86-73-7	Fluorene	ND	0.11	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
85-01-8	Phenanthrene	ND	0.11	mg/kg	
129-00-0	Pyrene	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		30-130%
321-60-8	2-Fluorobiphenyl	85%		30-130%
1718-51-0	Terphenyl-d14	115%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-4(4.5' -8')		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-5		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil		<b>Percent Solids:</b> 89.8
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G134928.D	1	02/05/14	JM	n/a	n/a	MSG5200
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.3 g	10.0 ml	100 ul
Run #2			

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.030	mg/kg	
104-51-8	n-Butylbenzene	ND	0.30	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.30	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.30	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
98-82-8	Isopropylbenzene	ND	0.30	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.30	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.12	mg/kg	
91-20-3	Naphthalene	ND	0.30	mg/kg	
103-65-1	n-Propylbenzene	ND	0.30	mg/kg	
108-88-3	Toluene	ND	0.30	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.30	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.30	mg/kg	
	m,p-Xylene	ND	0.12	mg/kg	
95-47-6	o-Xylene	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	104%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-4(4.5' -8')	
<b>Lab Sample ID:</b> MC28084-5	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8270D SW846 3546	<b>Percent Solids:</b> 89.8
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17622.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.8 g	1.0 ml
Run #2		

## BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.11	mg/kg	
218-01-9	Chrysene	ND	0.11	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
206-44-0	Fluoranthene	ND	0.11	mg/kg	
86-73-7	Fluorene	ND	0.11	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
85-01-8	Phenanthrene	ND	0.11	mg/kg	
129-00-0	Pyrene	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		30-130%
321-60-8	2-Fluorobiphenyl	88%		30-130%
1718-51-0	Terphenyl-d14	112%		30-130%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-7(4' -7.8')	
<b>Lab Sample ID:</b> MC28084-6	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8260C	<b>Percent Solids:</b> 90.4
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G134929.D	1	02/05/14	JM	n/a	n/a	MSG5200
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	10.5 g	10.0 ml	100 ul
Run #2			

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.029	mg/kg	
104-51-8	n-Butylbenzene	ND	0.29	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.29	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.29	mg/kg	
100-41-4	Ethylbenzene	ND	0.12	mg/kg	
98-82-8	Isopropylbenzene	ND	0.29	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.29	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.12	mg/kg	
91-20-3	Naphthalene	ND	0.29	mg/kg	
103-65-1	n-Propylbenzene	ND	0.29	mg/kg	
108-88-3	Toluene	ND	0.29	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.29	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.29	mg/kg	
	m,p-Xylene	ND	0.12	mg/kg	
95-47-6	o-Xylene	ND	0.12	mg/kg	
1330-20-7	Xylene (total)	ND	0.12	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	112%		70-130%
2037-26-5	Toluene-D8	113%		70-130%
460-00-4	4-Bromofluorobenzene	109%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



# Report of Analysis

<b>Client Sample ID:</b> B-7(4' -7.8')	
<b>Lab Sample ID:</b> MC28084-6	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> SO - Soil	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8270D SW846 3546	<b>Percent Solids:</b> 90.4
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17623.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

### BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.11	mg/kg	
218-01-9	Chrysene	ND	0.11	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
206-44-0	Fluoranthene	ND	0.11	mg/kg	
86-73-7	Fluorene	ND	0.11	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
85-01-8	Phenanthrene	ND	0.11	mg/kg	
129-00-0	Pyrene	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		30-130%
321-60-8	2-Fluorobiphenyl	91%		30-130%
1718-51-0	Terphenyl-d14	112%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-9(4-6')	<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-7	<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.5
<b>Method:</b> SW846 8260C	
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	G134930.D	1	02/05/14	JM	n/a	n/a	MSG5200
Run #2							

Run #1	Initial Weight	Final Volume	Methanol Aliquot
Run #1	11.7 g	10.0 ml	100 ul
Run #2			

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.028	mg/kg	
104-51-8	n-Butylbenzene	ND	0.28	mg/kg	
135-98-8	sec-Butylbenzene	ND	0.28	mg/kg	
98-06-6	tert-Butylbenzene	ND	0.28	mg/kg	
100-41-4	Ethylbenzene	ND	0.11	mg/kg	
98-82-8	Isopropylbenzene	ND	0.28	mg/kg	
99-87-6	p-Isopropyltoluene	ND	0.28	mg/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.11	mg/kg	
91-20-3	Naphthalene	ND	0.28	mg/kg	
103-65-1	n-Propylbenzene	ND	0.28	mg/kg	
108-88-3	Toluene	ND	0.28	mg/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	0.28	mg/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	0.28	mg/kg	
	m,p-Xylene	ND	0.11	mg/kg	
95-47-6	o-Xylene	ND	0.11	mg/kg	
1330-20-7	Xylene (total)	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		70-130%
2037-26-5	Toluene-D8	108%		70-130%
460-00-4	4-Bromofluorobenzene	107%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> B-9(4-6')	<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28084-7	<b>Date Received:</b> 02/04/14
<b>Matrix:</b> SO - Soil	<b>Percent Solids:</b> 87.5
<b>Method:</b> SW846 8270D SW846 3546	
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17624.D	1	02/07/14	KR	02/04/14	OP36759	MSW774
Run #2							

Run #1	Initial Weight	Final Volume
Run #1	20.4 g	1.0 ml
Run #2		

### BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	0.11	mg/kg	
208-96-8	Acenaphthylene	ND	0.11	mg/kg	
120-12-7	Anthracene	ND	0.11	mg/kg	
56-55-3	Benzo(a)anthracene	ND	0.11	mg/kg	
50-32-8	Benzo(a)pyrene	ND	0.11	mg/kg	
205-99-2	Benzo(b)fluoranthene	ND	0.11	mg/kg	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	mg/kg	
207-08-9	Benzo(k)fluoranthene	ND	0.11	mg/kg	
218-01-9	Chrysene	ND	0.11	mg/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	mg/kg	
206-44-0	Fluoranthene	ND	0.11	mg/kg	
86-73-7	Fluorene	ND	0.11	mg/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	mg/kg	
91-20-3	Naphthalene	ND	0.11	mg/kg	
85-01-8	Phenanthrene	ND	0.11	mg/kg	
129-00-0	Pyrene	ND	0.11	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	94%		30-130%
321-60-8	2-Fluorobiphenyl	96%		30-130%
1718-51-0	Terphenyl-d14	115%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

FED-EX Tracking #  
Accutest Quote #  
Accutest Job # **MC28084**

Client / Reporting Information		Project Information				Requested Analysis (see TEST CODE sheet)						Matrix Codes				
Company Name <b>Plumley Engineering, PC</b>		Project Name <b>Judd Road and Airport Road</b>										DW - Drinking Water GW - Ground Water WW - Water				
Street Address <b>8232 Loop Rd</b>		Street: <b>Judd Road</b>		Billing Information (if different from Report to)						SW - Surface Water						
City/State/Zip <b>Baldwinsville NY 13027</b>		City: <b>Whitestown, NY</b>		Company Name						SL - Sludge						
Project Contact <b>Derek Hudson</b>		Project # <b>2014005</b>		Street Address						SED Sediment						
Phone # <b>315-638-8587</b>		Client POB <b>same</b>		City/State/Zip						OI - Oil						
Sampler(s) Name(s) <b>LSTH</b>		Project Manager <b>Derek Hudson</b>		Attention:		PO#				LIQ - Other Liquid						
										AIR - Air						
										SOL - Other Solid						
										WP - Wipe						
										FB-Field Blank						
										EB-Equipment Blank						
										RB-Rinse Blank						
										TB-Trip Blank						
ACCSAT Sample #		MECH/DI Val #		Collection			Number of preserved Bottles						LAB USE ONLY			
Field ID / Point of Collection		Date		Time	Sampled by	Matrix	# of bottles	HCI	NH3/N	H2SO4	DI Water	MEDIH	ENCORE	Boulton		
-1 TP#2		1/30/14		AM	DHTM	SO	1									
-2 TP#4				AM												
-3 B-2 (0-4')				10:45	DHT											
-4 B-4 (4'-4.5')				11:30												
-5 B-4 (4.5'-8')				11:35												
-6 B-7 (4'-7.8')				11:40pm												
-7 B-9 (4'-6')				11:40pm												
																IOC
Turnaround Time (Business days) <input type="checkbox"/> Std. 10 Business Days <input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY				Approved By (Accutest PM): / Date: <u>Plumley</u>		<input checked="" type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> FULLT1 (Level 3+4) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> State Forms <input type="checkbox"/> EDD Format <input type="checkbox"/> Other				Comments / Special Instructions  <b>SYRACUSE SC</b>						
Emergency & Rush TIA data available VIA Lablink												Sample Custody must be documented below each time samples change possession, including post-delivery.				
Relinquished by Sampler: <u>[Signature]</u>		Date/Time: <u>2/3/14 14:35</u>		Received By: <u>[Signature]</u>		Relinquished by: <u>[Signature]</u>		Date/Time:		Received By: <u>FX</u>						
Relinquished by Sampler: <u>FX</u>		Date/Time: <u>2/4/14 9:30</u>		Received By: <u>[Signature]</u>		Relinquished by:		Date/Time:		Received By:						
Relinquished by:		Date/Time:		Received By:		Custody Seal #		<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact		Preserved where applicable		On Ice <input checked="" type="checkbox"/> <u>11°</u>		Cooler Temp.		

**MC28084: Chain of Custody**

**Page 1 of 2**

Accutest Job Number: MC28084      Client: PLUMLEY      Immediate Client Services Action Required: No  
Date / Time Received: 2/4/2014      Delivery Method:      Client Service Action Required at Login: No  
Project: JUDD RD AND AIRPORT RD      No. Coolers: 1      Airbill #'s:

**Cooler Security**      Y or N      Y or N

1. Custody Seals Present:        3. COC Present:    
2. Custody Seals Intact:        4. Smpl Dates/Time OK

**Cooler Temperature**      Y or N

1. Temp criteria achieved:    
2. Cooler temp verification: Infrared gun  
3. Cooler media: Ice (bag)

**Quality Control Preservation**      Y or N      N/A

1. Trip Blank present / cooler:     
2. Trip Blank listed on COC:     
3. Samples preserved properly:    
4. VOCs headspace free:

**Sample Integrity - Documentation**      Y or N

1. Sample labels present on bottles:    
2. Container labeling complete:    
3. Sample container label / COC agree:

**Sample Integrity - Condition**      Y or N

1. Sample recvd within HT:    
2. All containers accounted for:    
3. Condition of sample: Intact

**Sample Integrity - Instructions**      Y or N      N/A

1. Analysis requested is clear:    
2. Bottles received for unspecified tests:    
3. Sufficient volume recvd for analysis:    
4. Compositing instructions clear:     
5. Filtering instructions clear:

Comments

4.1  
4





Technical Report for

Plumley Environmental Engineers

Judd Road and Airport Road, Whitestown, NY

2014005.001

Accutest Job Number: MC28083

Sampling Date: 01/30/14

Report to:

dhudson@plumleyeng.com

ATTN: Distribution6

Total number of pages in report: **16**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.



Reza Fand  
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

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Test results relate only to samples analyzed.

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## Sample Summary

Plumley Environmental Engineers

**Job No:** MC28083

Judd Road and Airport Road, Whitestown, NY

Project No: 2014005.001

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
MC28083-1	01/30/14	15:13 DTH	02/04/14	AQ	Ground Water	B-1/TW
MC28083-2	01/30/14	16:00 DTH	02/04/14	AQ	Ground Water	B-4/TW
MC28083-3	01/30/14	15:45 DTH	02/04/14	AQ	Ground Water	B-5/TW
MC28083-4	01/30/14	09:30 DTH	02/04/14	AQ	Ground Water	B-8/TW

## Summary of Hits

**Job Number:** MC28083  
**Account:** Plumley Environmental Engineers  
**Project:** Judd Road and Airport Road, Whitestown, NY  
**Collected:** 01/30/14

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

**MC28083-1 B-1/TW**

No hits reported in this sample.

**MC28083-2 B-4/TW**

Benzene	5.8	0.50		ug/l	SW846 8260C
n-Butylbenzene	50.6	5.0		ug/l	SW846 8260C
sec-Butylbenzene	17.7	5.0		ug/l	SW846 8260C
Ethylbenzene	33.6	1.0		ug/l	SW846 8260C
Isopropylbenzene	31.7	5.0		ug/l	SW846 8260C
p-Isopropyltoluene	6.8	5.0		ug/l	SW846 8260C
Naphthalene	18.4	5.0		ug/l	SW846 8260C
n-Propylbenzene	96.2	5.0		ug/l	SW846 8260C
Toluene	2.2	1.0		ug/l	SW846 8260C
1,2,4-Trimethylbenzene	223	5.0		ug/l	SW846 8260C
1,3,5-Trimethylbenzene	73.1	5.0		ug/l	SW846 8260C
m,p-Xylene	56.4	1.0		ug/l	SW846 8260C
o-Xylene	5.3	1.0		ug/l	SW846 8260C
Xylene (total)	61.7	1.0		ug/l	SW846 8260C
Naphthalene	15.8	2.0		ug/l	SW846 8270D

**MC28083-3 B-5/TW**

No hits reported in this sample.

**MC28083-4 B-8/TW**

No hits reported in this sample.

Sample Results

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Report of Analysis

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# Report of Analysis

<b>Client Sample ID:</b> B-1/TW	
<b>Lab Sample ID:</b> MC28083-1	<b>Date Sampled:</b> 01/30/14
<b>Matrix:</b> AQ - Ground Water	<b>Date Received:</b> 02/04/14
<b>Method:</b> SW846 8260C	<b>Percent Solids:</b> n/a
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27678.D	1	02/06/14	AMY	n/a	n/a	MSV1043
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

### VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	110%		70-130%
2037-26-5	Toluene-D8	100%		70-130%
460-00-4	4-Bromofluorobenzene	103%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

# Report of Analysis

<b>Client Sample ID:</b> B-1/TW		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-1		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17591.D	1	02/06/14	KR	02/04/14	OP36764	MSW773
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	970 ml	1.0 ml
Run #2		

### BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.1	ug/l	
208-96-8	Acenaphthylene	ND	2.1	ug/l	
120-12-7	Anthracene	ND	2.1	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.1	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.1	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.1	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.1	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.1	ug/l	
218-01-9	Chrysene	ND	2.1	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.1	ug/l	
206-44-0	Fluoranthene	ND	2.1	ug/l	
86-73-7	Fluorene	ND	2.1	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.1	ug/l	
91-20-3	Naphthalene	ND	2.1	ug/l	
85-01-8	Phenanthrene	ND	2.1	ug/l	
129-00-0	Pyrene	ND	2.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	69%		30-130%
321-60-8	2-Fluorobiphenyl	66%		30-130%
1718-51-0	Terphenyl-d14	83%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound



## Report of Analysis

<b>Client Sample ID:</b> B-4/TW	<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-2	<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C	
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27679.D	1	02/06/14	AMY	n/a	n/a	MSV1043
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	5.8	0.50	ug/l	
104-51-8	n-Butylbenzene	50.6	5.0	ug/l	
135-98-8	sec-Butylbenzene	17.7	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	33.6	1.0	ug/l	
98-82-8	Isopropylbenzene	31.7	5.0	ug/l	
99-87-6	p-Isopropyltoluene	6.8	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	18.4	5.0	ug/l	
103-65-1	n-Propylbenzene	96.2	5.0	ug/l	
108-88-3	Toluene	2.2	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	223	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	73.1	5.0	ug/l	
	m,p-Xylene	56.4	1.0	ug/l	
95-47-6	o-Xylene	5.3	1.0	ug/l	
1330-20-7	Xylene (total)	61.7	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		70-130%
2037-26-5	Toluene-D8	102%		70-130%
460-00-4	4-Bromofluorobenzene	100%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-4/TW		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-2		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17592.D	1	02/06/14	KR	02/04/14	OP36764	MSW773
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

## BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	ug/l	
91-20-3	Naphthalene	15.8	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		30-130%
321-60-8	2-Fluorobiphenyl	75%		30-130%
1718-51-0	Terphenyl-d14	90%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-5/TW		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-3		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27680.D	1	02/06/14	AMY	n/a	n/a	MSV1043
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	101%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-5/TW	<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-3	<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water	<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C	
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17593.D	1	02/06/14	KR	02/04/14	OP36764	MSW773
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

## BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	68%		30-130%
321-60-8	2-Fluorobiphenyl	67%		30-130%
1718-51-0	Terphenyl-d14	86%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-8/TW		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-4		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8260C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V27681.D	1	02/06/14	AMY	n/a	n/a	MSV1043
Run #2							

Run #1	Purge Volume
Run #1	5.0 ml
Run #2	

## VOA STARS List

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	0.50	ug/l	
104-51-8	n-Butylbenzene	ND	5.0	ug/l	
135-98-8	sec-Butylbenzene	ND	5.0	ug/l	
98-06-6	tert-Butylbenzene	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
98-82-8	Isopropylbenzene	ND	5.0	ug/l	
99-87-6	p-Isopropyltoluene	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
91-20-3	Naphthalene	ND	5.0	ug/l	
103-65-1	n-Propylbenzene	ND	5.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	ug/l	
	m,p-Xylene	ND	1.0	ug/l	
95-47-6	o-Xylene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	102%		70-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Report of Analysis

<b>Client Sample ID:</b> B-8/TW		<b>Date Sampled:</b> 01/30/14
<b>Lab Sample ID:</b> MC28083-4		<b>Date Received:</b> 02/04/14
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> SW846 8270D SW846 3510C		
<b>Project:</b> Judd Road and Airport Road, Whitestown, NY		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W17594.D	1	02/06/14	KR	02/04/14	OP36764	MSW773
Run #2							

Run #1	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

## BN STARS List

CAS No.	Compound	Result	RL	Units	Q
83-32-9	Acenaphthene	ND	2.0	ug/l	
208-96-8	Acenaphthylene	ND	2.0	ug/l	
120-12-7	Anthracene	ND	2.0	ug/l	
56-55-3	Benzo(a)anthracene	ND	2.0	ug/l	
50-32-8	Benzo(a)pyrene	ND	2.0	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	2.0	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	2.0	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	2.0	ug/l	
218-01-9	Chrysene	ND	2.0	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	ug/l	
206-44-0	Fluoranthene	ND	2.0	ug/l	
86-73-7	Fluorene	ND	2.0	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.0	ug/l	
91-20-3	Naphthalene	ND	2.0	ug/l	
85-01-8	Phenanthrene	ND	2.0	ug/l	
129-00-0	Pyrene	ND	2.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		30-130%
321-60-8	2-Fluorobiphenyl	72%		30-130%
1718-51-0	Terphenyl-d14	86%		30-130%

ND = Not detected  
 RL = Reporting Limit  
 E = Indicates value exceeds calibration range

J = Indicates an estimated value  
 B = Indicates analyte found in associated method blank  
 N = Indicates presumptive evidence of a compound

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody





CHAIN OF CUSTODY

Accutest Laboratories of New England  
495 Technology Center West, Building One  
TEL: 508-481-6200 FAX: 508-481-7753  
www.accutest.com

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # <b>MC28083</b>
Requested Analysis ( see TEST CODE sheet)	
Matrix Codes	

DW - Drinking Water  
GW - Ground Water  
WW - Water  
SW - Surface Water  
SO - Soil  
SL - Sludge  
SED - Sediment  
OI - Oil  
LIQ - Other Liquid  
AIR - Air  
SOL - Other Solid  
WP - Wipe  
FB - Field Blank  
EB - Equipment Blank  
RB - Rinse Blank  
TB - Trip Blank

8260 CP-5-1  
8270 CP-5-1

Client / Reporting Information		Project Information	
Company Name <b>Phurley Engineering PC</b>	Project Name <b>Fidd Road and Airport Road</b>	Street Address <b>Fidd Road</b>	Billing Information ( If different from Report to )
Street Address <b>8232 Loop Rd</b>	City <b>Baldwinsville NY 13027</b>	Company Name	Street Address
City <b>Baldwinsville NY 13027</b>	Project <b>Dork Hudson</b>	City	State
Project Contact <b>Dork Hudson</b>	E-mail	City	State
Phone # <b>315-638-8587</b>	Fax #	Client PO#	Zip
Sampler(s) Name(s) <b>DTH</b>	Phone #	Project Manager <b>Dork Hudson</b>	Attention:
		PO#	

Accutest Sample #	Field ID / Point of Collection	MECH/EI Vial #	Collection		Sampled by	Matrix	# of bottles	Number of preserved Bottles																		
			Date	Time				HCl	NO3	NO2	AMMO	AMSO4	NH4	PHOS	CO3	PHOS	PB	DI Water	MECH	ENCORE	BS/units					
-1	B-1/TW		1/30/14	15:13	DTH	GW	4	X										X	X							
-2	B-4/TW			16:00																						
-3	B-5/TW			15:45																						
-4	B-8/TW			4:30																						
19DD, 4F4																										

Turnaround Time ( Business days )	Approved By (Accutest PM): / Date:	Data Deliverable Information	Comments / Special Instructions
<input type="checkbox"/> Std. 10 Business Days <input checked="" type="checkbox"/> Std. 5 Business Days (By Contract only) <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day EMERGENCY <input type="checkbox"/> 2 Day EMERGENCY <input type="checkbox"/> 1 Day EMERGENCY	<u>Phurley</u>	<input checked="" type="checkbox"/> Commercial "A" ( Level 1 ) <input type="checkbox"/> Commercial "B" ( Level 2 ) <input type="checkbox"/> FULLT1 ( Level 3+4 ) <input type="checkbox"/> CT RCP <input type="checkbox"/> MA MCP Commercial "A" = Results Only Commercial "B" = Results + QC Summary	SYRACUSE SO
Emergency & Rush TIA data available VIA Lablink			

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: <u>ST-clr</u>	Date Time: 2/3/14 14:30	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date Time:	Received By: FX
Relinquished by Sampler: FX	Date Time: 2/4/14 9:30	Received By: <u>[Signature]</u>	Relinquished By: <u>[Signature]</u>	Date Time:	Received By: 4
Relinquished by:	Date Time:	Received By:	Custody Seal #	<input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Preserved where applicable <input type="checkbox"/>
				On Ice <input checked="" type="checkbox"/>	Cooler Temp. 1.1°

MC28083: Chain of Custody  
Page 1 of 2

**Accutest Job Number:** MC28083      **Client:** PLUMLEY      **Immediate Client Services Action Required:** No  
**Date / Time Received:** 2/4/2014      **Delivery Method:** \_\_\_\_\_      **Client Service Action Required at Login:** No  
**Project:** JUDD RD      **No. Coolers:** 1      **Airbill #'s:** \_\_\_\_\_

<u>Cooler Security</u>	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infared gun
3. Cooler media:			Ice (bag)

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

4.1  
4