



# County of Nassau Department of Public Works

## Fireman's Training Center

Evaluation of Groundwater Treatment Status and  
Achievement of System Termination Criteria



October 2011

**FIREMAN'S TRAINING CENTER**

**EVALUATION OF GROUNDWATER TREATMENT STATUS AND  
ACHIEVEMENT OF SYSTEM TERMINATION CRITERIA**

*Prepared for:*

**NASSAU COUNTY DEPARTMENT  
OF PUBLIC WORKS**

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**OCTOBER 2011**

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TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1.0</b>	<b>INTRODUCTION.....</b>	<b>1-1</b>
1.1	Site Description and Remediation History .....	1-1
1.2	Non-FTC Sources of Groundwater Contamination .....	1-5
1.3	Previously Completed Groundwater Modeling .....	1-7
<b>2.0</b>	<b>SCOPE OF WORK.....</b>	<b>2-1</b>
2.1	Review of Existing Environmental Reports and Data .....	2-1
2.2	Review of FTC Remediation Monitoring Plan.....	2-2
2.3	Evaluation of Termination Criteria.....	2-3
<b>3.0</b>	<b>EVALUATION OF TERMINATION CRITERIA .....</b>	<b>3-1</b>
3.1	On-Site .....	3-1
3.1.1	Comparison of Groundwater Data to Cleanup Objectives .....	3-1
3.1.2	Statistical Analysis.....	3-6
3.1.3	Summary .....	3-6
3.2	Off-Site .....	3-7
3.2.1	Comparison of Groundwater Data to Cleanup Objectives .....	3-7
3.2.2	Statistical Analysis.....	3-7
3.2.3	Summary .....	3-8
<b>4.0</b>	<b>STATUS OF TREATMENT.....</b>	<b>4-1</b>
4.1	On-Site .....	4-1
4.2	Off-Site .....	4-4
<b>5.0</b>	<b>CONCLUSIONS AND RECOMMENDATIONS.....</b>	<b>5-1</b>
5.1	On-Site .....	5-1
5.2	Off-Site .....	5-2

TABLE OF CONTENTS (continued)

**List of Appendices**

---

Historical Monitoring Well Data (on Compact Disc).....A  
NYSDEC Letter on FTC Groundwater Monitoring Program.....B  
Details of Statistical Analysis .....C  
Total VOC Concentration Trends for Select Monitoring Wells.....D

**List of Figures**

---

1-1 Study Area and Off-Site Well Locations .....1-2  
1-2 On-Site Well Locations.....1-4  
1-3 Potential Non-FTC Sources of Groundwater Contamination.....1-6  
  
4-1 Total VOCs vs. Water Elevation in W-35 .....4-2  
4-2 Total VOCs in On-Site Extraction Well RW-1 .....4-5  
4-3 Total VOC Data for Well BP-4C.....4-6  
4-4 Total VOC Data for Well BP-9B.....4-7  
4-5 Total VOC Data for Well BP-14B.....4-8  
4-6 Vector Groundwater Flow Diagram .....4-10  
4-7 Total VOCs in Off-Site Extraction Wells.....4-12

**List of Tables**

---

2-1 RMP Termination Monitoring Wells.....2-2  
  
3-1 On-Site Monitoring Wells, Summary of Data Analysis .....3-2  
3-2 Off-Site Monitoring Wells, Summary of Data Analysis .....3-3

## **1.0 INTRODUCTION**

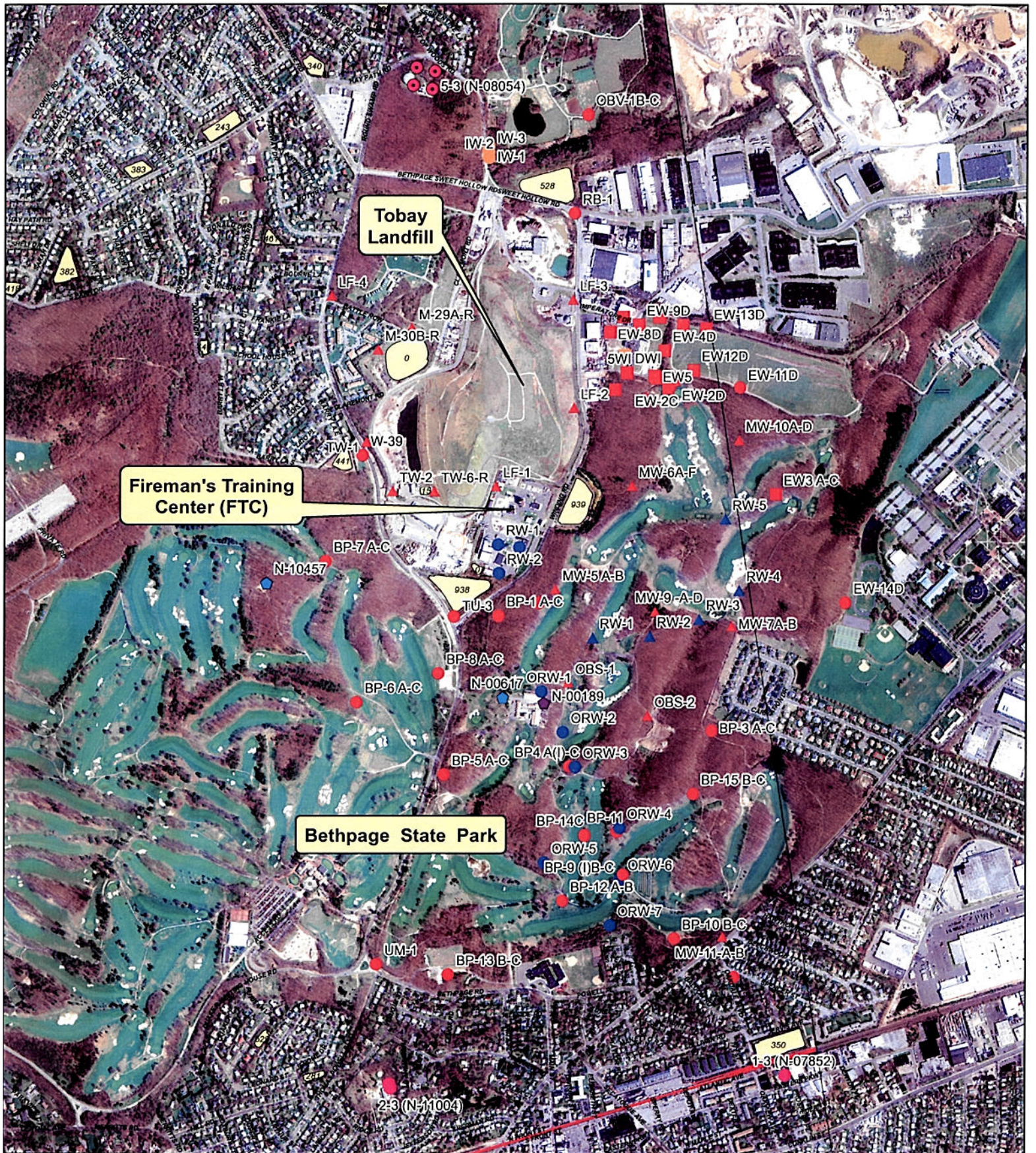
Since 1999, the Nassau County Department of Public Works (the County) has been operating a groundwater treatment system for the Fireman's Training Center (FTC), located in Old Bethpage, New York. In January 2011, Dvirka and Bartilucci Consulting Engineers (D&B) was retained by the County to evaluate the status of groundwater treatment at the FTC, including a review of the termination criteria for the remedial system as outlined in the September 1994 Remediation Monitoring Plan and an evaluation of the associated groundwater monitoring database. The objective of this assignment was to determine if the original termination criteria for the groundwater treatment system had been achieved and to provide recommendations to the County with regard to the future operation of the system. This report presents the findings, conclusions and recommendations of D&B's evaluation.

### **1.1 Site Description and Remediation History**

The following is a brief description of the FTC and a discussion of the remediation activities at the facility. Please refer to the County's 2011 Periodic Review Report (PRR) for additional detail.

The FTC is located on a 12-acre site along Winding Road near Round Swamp Road in Old Bethpage, New York. A map of the study area is provided as Figure 1-1. It is bordered to the north and west by Old Bethpage Landfill and to the south and east by Bethpage State Park. The site has been used since 1960 for fire fighting training exercises conducted in open burn areas and building mock-ups. Between 1970 and 1980, waste solvents, in addition to fuel oil and gasoline, were accepted at the site for use in training. Since 1980, training has been conducted using only fuel oil and gasoline.

Groundwater contamination resulted from training exercises conducted through the mid-1980's. In the open burn areas, fuel was poured directly onto the ground. In the building mock-ups, unburned fuel and solvents were mixed with fire fighting and wash water and flowed into



**Legend**

- Nassau County Monitoring Well at Well Cluster
- Nassau County Recovery Well
- Nassau County Public Supply Well
- ▲ 1/2" Outer Bay Monitoring Well at Well Cluster
- ▲ 1/2" Outer Bay Recovery Well
- 2" AT Wastewater Public Supply Well
- Bethpage State Park Monitoring Well
- Fireman's Training Center Recovery Well
- Fireman's Training Center Public Supply Well
- Fireman's Training Center 1/2" Outer Bay Monitoring Well
- Fireman's Training Center 1/2" Outer Bay Recovery Well
- Fireman's Training Center 2" AT Wastewater Public Supply Well
- Bethpage State Park 1/2" Outer Bay Monitoring Well
- Bethpage State Park 1/2" Outer Bay Recovery Well
- Bethpage State Park 2" AT Wastewater Public Supply Well
- Fireman's Training Center 2" AT Wastewater Public Supply Well



**FIGURE 1-1**  
**STUDY AREA AND OFF-SITE**  
**WELL LOCATIONS**

Prepared By: **NCCPWR** - Nassau County  
 Engineering Unit



Nassau County



Geographic Information System

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Date: 10/14/05

on-site dry wells. Drainage improvements eliminated these subsurface discharges in the mid-1980's. Groundwater contamination at the FTC primarily consisted of various volatile organic compounds (VOCs) and, to a lesser degree, semivolatile organic compounds (SVOCs) in the dissolved phase. Additionally, significant amounts of floating "petroleum product" or light nonaqueous phase liquid (LNAPL) were observed on the groundwater. A VOC plume emanated from the FTC in a southeasterly direction along with the natural flow of groundwater, principally containing benzene, c-1,2-dichloroethene (1,2-DCE), tetrachloroethene (PCE) and trichloroethene (TCE).

Operating since 1999, the groundwater treatment facility at the FTC was constructed to extract and treat contaminated groundwater. Treated effluent was initially discharged to either an off-site recharge basin or injection wells located north of the facility. However, poor infiltration characteristics in the recharge basin limited the capacity of the treatment system. In 2006, the County connected its plant effluent line to the sanitary sewer system, allowing discharge to both locations and expanding treatment capacity. The original treatment plan consisted of continuous pumping of three on-site (RW-1, 2 and 3) and seven off-site extraction wells (ORW-1 through 7). The locations of the extraction wells are provided on Figure 1-1 and an on-site well location map is provided as Figure 1-2.

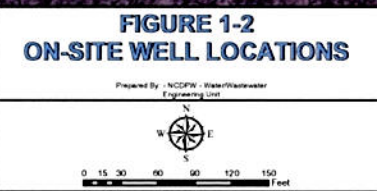
After successful LNAPL recovery and with an absence of VOC and SVOC detections, the New York State Department of Environmental Conservation (NYSDEC) allowed the County to cease pumping of RW-2 and 3 in 2002. Although RW-1 continued to operate, the presence of landfill leachate from the adjacent Old Bethpage Landfill produced severe iron fouling of the pump and piping, resulting in a number of system shutdowns and significant additional maintenance costs. In February 2010, an apparent failure in the well screen of RW-1 resulted in the shutdown of on-site treatment.

The off-site groundwater treatment system has been very effective in reducing contaminant concentrations during its 12 years of operation. However, the County suspected that VOCs from non-FTC sources, such as dichlorodifluoromethane, were being captured by the



**Legend**

PTC Monitoring Wells	Nassau County Monitoring Well or Well Cluster
Recharge Basin	Nassau County Recovery Well
Farnham's Training Center Area Well	Phoenix WQ Public Supply Well
Debraige State Park Injection Well	T. of Cyster Bay Monitoring Well or Well Cluster
Debraige State Park Injection Well	T. of Cyster Bay Recovery Well
Clearwood Polychemical Site Diffusion Well	V. of Farnham's Public Supply Well
Clearwood Polychemical Site Monitoring Well or Well Cluster	
Nassau County Injection Well	



Nassau County

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WATER/WASTEWATER ENGINEERING TRAINING CENTER (SIGNAL SITE) PUMP/STATION 1-2 ON-SITE WELL LOCATION - 841 POINT AS OF 07/21/09



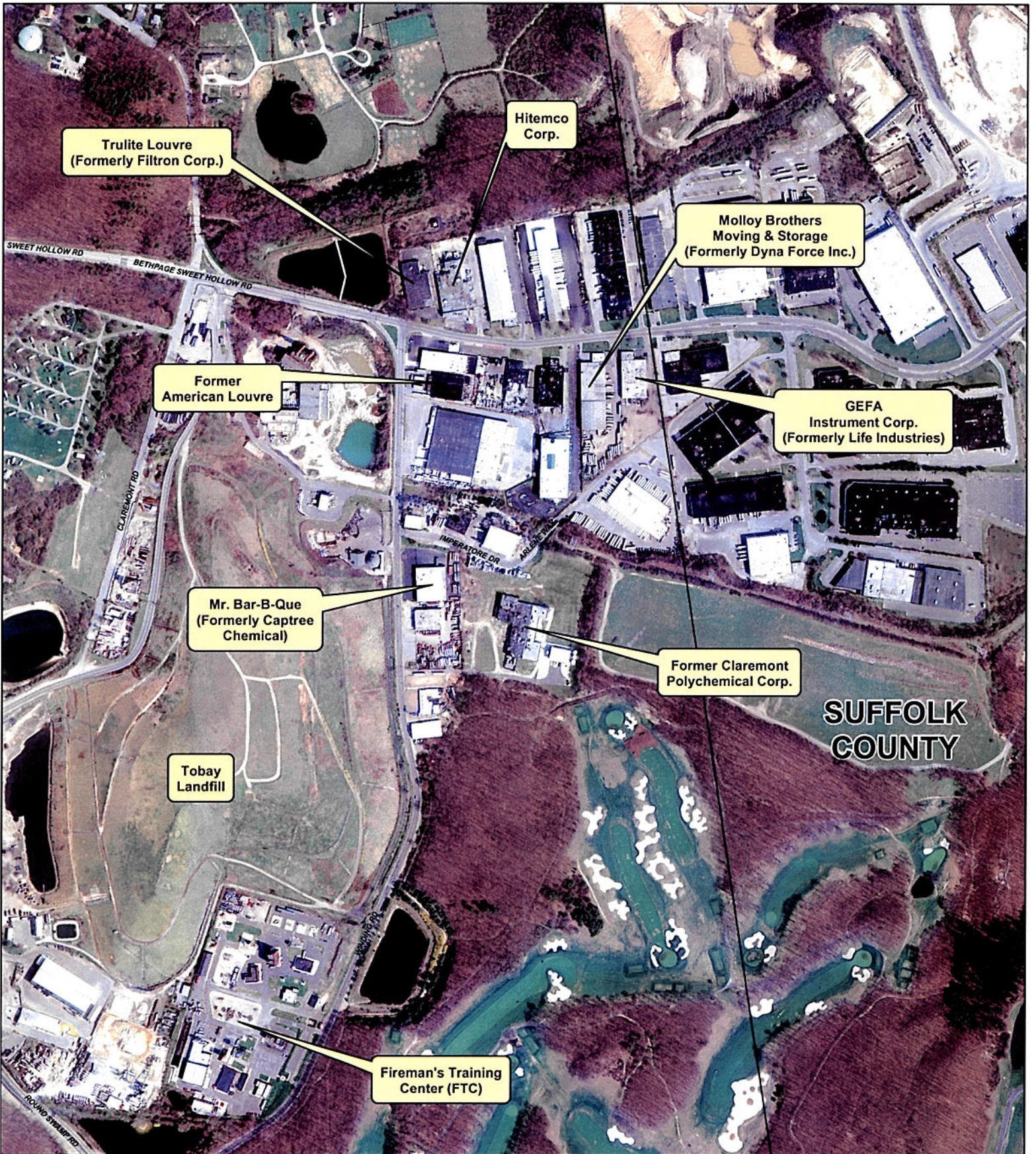
treatment system. See Section 1.2 below for a discussion of these non-FTC sources. A groundwater model developed by Camp, Dresser and McKee (CDM) for the County in 2008 supported the position that non-FTC sources were impacting the off-site treatment system. In addition, the CDM model developed a more efficient off-site pumping strategy utilizing only four (ORW-3, 4, 6 and 7) of the seven original off-site extraction wells. The CDM model is discussed further in Section 1.3.

## **1.2 Non-FTC Sources of Groundwater Contamination**

The FTC is located in an industrial area, with other known groundwater contamination sources located in close proximity to the north and east. Therefore, groundwater in the vicinity of the FTC contains a wide range of VOCs and other contaminants not related to FTC operations. As depicted on Figure 1-3, the closest and most widely studied non-FTC sources of groundwater contamination are two hazardous waste sites, the Old Bethpage Landfill and the former Claremont Polychemical. Both sites have been previously investigated and have active off-site groundwater extraction wells that are likely interacting with the FTC extraction wells to some degree and complicating historical as well as current groundwater flow patterns. The Old Bethpage Landfill is a known source of leachate to groundwater. Claremont Polychemical manufactured pigments for plastics and other materials from 1966 to 1980, and disposed of wastewater in on-site diffusion wells. In addition, soil and groundwater contamination from leaking drums and storage tanks was documented at Claremont by the United States Environmental Protection Agency (USEPA).

Groundwater samples collected from monitoring wells installed upgradient of Claremont Polychemical have indicated that groundwater contamination exists upgradient of the facility. As indicated on Figure 1-3, the County has identified at least six other potential sources of VOC groundwater contamination in the area, including:

- The former American Louvre facility;
- The former Captree Chemical facility;
- Trulite Louvre (formerly Filtron Corporation);



**FIGURE 1-3  
POTENTIAL NON-FTC SOURCES OF  
GROUNDWATER CONTAMINATION**

Prepared By: NCCFPM - Water/Wastewater  
Investigation List



0 120 240 360 480 600  
Feet



Map  
Location

Nassau County



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- Hitemco Corporation;
- The former Dyna Force, Inc.; and
- The former Life Industries facility.

It should be noted that these sites have been identified as potential sources based largely on historical storage or handling of the VOCs detected downgradient of the FTC. However, the former American Louvre facility is now considered a State Superfund site with a planned Remedial Investigation to be conducted in 2011. According to the NYSDEC, American Louvre generated solvent waste, including PCE, TCE and 1,1,1-trichloroethane (TCA). In 1997, a contaminated drainage structure was remediated and a 2007 on-site investigation found soil and groundwater contaminated with TCE.

### **1.3 Previously Completed Groundwater Modeling**

The County has suspected that the FTC off-site treatment system was being impacted by VOCs from some of the non-FTC sources as discussed in Section 1.1. In 2008, CDM developed a groundwater model for the County, described in their April 2008 final report entitled, “Fireman’s Training Center Groundwater Model.” The following is a brief summary of the major findings of the report. Please refer to the report for additional detail.

Groundwater modeling for the FTC and the surrounding area was initially conducted in 1994 as part of the remedial design. That model was based on the Nassau County Regional Groundwater Model originally developed by CDM in the 1980’s. In 2008, a revised groundwater model was created with an updated version of the Nassau County regional model that was developed as part of the New York State Source Water Assessment Program (SWAP) in 2003. In addition, the model included any localized stratigraphic information collected from groundwater observation wells installed since the facility was constructed. The model was run and calibrated under transient conditions, utilizing precipitation and pumping data collected between 1960 and 2005. The pumping data included public supply wells, irrigation wells from Bethpage State Park, and extraction wells for the various treatment systems. The stratigraphic framework of the model

reflected the three previously categorized hydrogeological zones utilized by the County, including:

- The A-Zone extending from the water table to an elevation of approximately 85 feet below mean sea level (msl), and consisting of the Upper Glacial aquifer and upper Magothy aquifer. The on-site extraction wells are located within this zone;
- The B-Zone extending to approximately 150 feet below msl, located within the Magothy aquifer. The County and NYSDEC previously determined that the VOC contamination from the FTC was primarily within this zone. Therefore, all off-site extraction wells are screened in the B-Zone. Throughout most of the model area, the base of the B-Zone is a lignitic clay that limits vertical contaminant migration; and
- The C-Zone, consisting of portions of the Magothy aquifer below the lignitic clay.

Results from the transient groundwater flow simulations were incorporated into a contaminant transport model and particle tracking simulations from FTC and other suspected non-FTC sources were conducted.

Contaminant transport simulations indicated that some of the contaminants from Claremont Polychemical or other non-FTC sources (i.e. the eastern plume), could have migrated in both the B-Zone and C-Zone into areas downgradient of the other treatment systems prior to operation. Historical monitoring well data has exhibited B-Zone and C-Zone contamination to the east of the FTC extraction wells. The model runs performed by CDM demonstrated that some of the non-FTC B-Zone contamination would be captured by the FTC off-site groundwater treatment system, primarily by extraction wells ORW-4, 6 and 7. The results supported the County's position that the FTC groundwater extraction wells were capturing groundwater contaminants from non-FTC sources. Furthermore, the non-FTC C-Zone contamination was determined to be largely uncontrolled by the various groundwater treatment systems, including those operating for the Old Bethpage Landfill and the former Claremont Polychemical facility, due to the presence of the lignitic clay and the fact that all of the extraction wells are screened above the clay unit.

The simulations indicated that the FTC extraction wells are capturing groundwater which originates in Suffolk County. Water quality samples collected from groundwater observation

wells installed near the Nassau-Suffolk County boundary (BP-3, BP-15 and EW-14D) indicate that contamination that is being captured by the FTC wells may in fact originate from western Suffolk County or areas to the north and east of the FTC facility.

The modeling suggested that contamination originating from the FTC remains within the B-Zone (i.e. the western plume) and was being effectively captured by the FTC off-site extraction wells. Contaminants from the FTC were restricted vertically from the C-Zone by the lignitic clay. In fact, the modeling results enabled the County to optimize the pumping and capture zones of the FTC groundwater extraction wells. Based on the model simulations, the County and NYSDEC agreed to utilize only four (ORW-3, 4, 6 and 7) of the seven original off-site extraction wells in order to effectively capture all remaining FTC-related contamination.

## **2.0 SCOPE OF WORK**

To evaluate the status of groundwater treatment at the FTC, D&B completed the following tasks:

- Review of Existing Environmental Reports and Data
- Review of FTC Remediation Monitoring Plan
- Evaluation of System Termination Criteria

The following sections describe D&B's approach to each task. It should be noted that there have been significant changes to the FTC monitoring program since the September 1994 Remediation Monitoring Plan was issued. These changes were approved by the NYSDEC and are discussed below, along with their implications for the evaluation of system termination criteria.

### **2.1 Review of Existing Environmental Reports and Data**

D&B reviewed all background information provided by the County concerning the FTC in order to gather the data and information necessary to perform a comprehensive evaluation of the status of groundwater treatment. In addition to the 2008 CDM groundwater modeling report, this included all annual groundwater monitoring reports generated by the County dating back to 1999 and the County's 2009 Periodic Review Report. D&B also conducted a site visit on February 8, 2011 to view existing site conditions and discuss the operational status of the groundwater treatment system with the current operators.

The County provided D&B with over 10 years of groundwater monitoring data associated with the FTC groundwater treatment facility in digital Excel spreadsheet format (see Appendix A). In addition, D&B was provided with historical system influent and extraction well data. A comprehensive analysis of the data was required to ascertain the status of groundwater quality relative to designated cleanup goals, and to provide the County with recommendations regarding

the termination or modification of the current FTC groundwater treatment system. A summary and evaluation of the County data is presented in this report.

## 2.2 Review of FTC Remediation Monitoring Plan

As part of this task, D&B completed a detailed review of the September 1994 Remediation Monitoring Plan (RMP) for the FTC, focusing on groundwater monitoring requirements and the criteria for termination of the remedial system. The review was an important component in the evaluation of the system termination criteria (see Section 2.3).

Significant changes have occurred in the groundwater monitoring program since the RMP was issued. The County has sampled the monitoring well network since 1999, initially on a quarterly basis as specified by the RMP. The monitoring wells selected for quarterly groundwater sampling in the RMP are listed in Table 2-1. These wells were also selected in the RMP to be evaluated for the termination criteria, and are herein referred to as the “RMP Termination Monitoring Wells”.

**Table 2-1**

### **RMP TERMINATION MONITORING WELLS**

<b>On-Site Wells</b>	<b>Off-Site Wells</b>
FTC-W-4A	BP-2B
FTC-W-4B	BP-4B
FTC-W-7A	BP-4C
FTC-W-7B	BP-9B
FTC-W-7C	BP-9C
FTC-W-9A	BP-10B
FTC-W-9B	BP-10C
FTC-W-14A	BP-12B
FTC-W-14B	
FTC-W-32	
FTC-W-35	

Groundwater samples collected from these wells were analyzed for VOCs, with the on-site wells also analyzed for SVOCs. An expanded well list was sampled annually and analyzed for additional parameters, including inorganics. The RMP termination monitoring well list does not include all wells that were regularly sampled by the County, such as those located to the east of the FTC off-site extraction wells and impacted by non-FTC sources (e.g. the BP-3 well cluster). In addition, well clusters were installed and regularly sampled by the County after the issuance of the RMP in order to further delineate VOC contamination from a variety of potential sources. These well clusters include BP-13, 14 and 15.

In March 2008, the County implemented a modified groundwater monitoring program with NYSDEC approval in order to more efficiently monitor the effectiveness of the remedial system. The modified program, outlined in the NYSDEC letter provided in Appendix B, includes sampling of some of the newer delineation wells and a reduced sampling frequency, with semiannual sampling of seven on-site and off-site monitoring wells and fifth quarter sampling of an additional 17 wells. Thirteen wells were dropped from active sampling due to the absence of VOCs and SVOCs in groundwater.

### **2.3 Evaluation of Termination Criteria**

D&B performed an evaluation of the FTC groundwater monitoring database to determine if and to what degree the remedial system termination criteria described in the 1994 RMP had been achieved. The criteria listed in Section 2.5 of the RMP (Remedial System Termination) include:

- Specific groundwater cleanup objectives for selected VOCs and SVOCs that must be achieved at the RMP Termination Monitoring Wells over a 2-year period (or eight quarters based on the original quarterly sampling program).
- A zero slope condition for all RMP Termination Monitoring Wells which do not meet the groundwater cleanup objectives, where the concentration of total VOCs plotted against time over a period of 2 years exhibits a slope statistically indistinguishable from zero.



D&B's approach to each criterion is described below. Given the changes that have occurred since the 1994 RMP described in Section 2.2, D&B evaluated all monitoring wells with the available data. The results of D&B's evaluation are presented in Section 3.0 focusing on the findings relative to the RMP Termination Monitoring Wells.

#### Comparison of Groundwater Data to Cleanup Objectives

The RMP presents groundwater cleanup objectives for specific VOCs and SVOCs that must be achieved over a 2-year period in order to terminate operation of the groundwater treatment system. In the monitoring well data provided in Appendix A, the selected VOCs and SVOCs from the RMP are shaded. Any of these compounds not listed for a given well in Appendix A were never detected during monitoring. The cleanup objectives in the RMP generally correspond to NYSDEC Class GA Groundwater Standards and Guidance Values and New York State drinking water standards. For other compounds, the data has been compared to Class GA standards. Any exceedances have been noted in bold and outlined in Appendix A.

The RMP specifies that the groundwater cleanup objectives must be achieved over a 2-year period, which consists of 8 quarters under the original monitoring scheme. As described earlier, the groundwater monitoring program was changed to semiannual and fifth quarter sampling in 2008. To strike a balance between the number and age of the data points, D&B compared the groundwater data to the cleanup objectives over a period of 2 years, but required a minimum of 4 sampling rounds. If identified as a lab contaminant, compounds such as methylene chloride were not included in the evaluation. A summary of the results of this evaluation for each well is provided in Section 3.0.

#### Statistical Analysis

In accordance with the specifications outlined in Section 2.5 of the RMP, D&B performed a zero slope condition analysis for wells that did not meet the groundwater cleanup objectives. For each well, the analysis determined if the total VOC concentrations had leveled off and were no longer significantly increasing or decreasing. The methods for this analysis are

described below and detailed calculations are provided for each well in Appendix C. It should be noted that the concentrations of any identified lab contaminants, such as methylene chloride, were subtracted from the total VOC concentrations.

The initial step specified in the RMP was to plot the total VOC concentration for each well over the last 2 years. Two years of data equated to 8 sampling events under the original quarterly monitoring scheme for the FTC. To ensure that the statistical analysis met this standard of validity, D&B utilized the eight most recent sampling events for each well. If total VOC concentrations had leveled off in a given well within the last few years, then it could be assumed that the statistical analysis was working with data that modeled more of a linear equation than a power or logarithmic equation.

The next step described in the RMP was to test for normality (i.e. that the data was normally distributed). Under the assumption that the data primarily fit a linear equation, D&B performed a simple statistical test to determine if any individual data points fell outside a normal (95%) range of data. To determine this, the mean and standard deviation were calculated and any data points that fell outside the normal range of the mean plus 1.96 times the standard deviation were considered to be outliers and excluded from further statistical analysis. However, these data points were still utilized when evaluating overall groundwater quality and the status of treatment.

Probability charts were prepared to determine if the total VOC concentration data for each well were normally distributed. A normal distribution of the total VOC data over time with a strong correlation ( $R^2 > 0.9$ ) would indicate that the data more closely modeled a linear equation as opposed to power or logarithmic equation. For those wells with a lower correlation ( $R^2 < 0.9$ ), probability charts were prepared using the log of the total VOC concentrations to determine if the data more closely modeled a logarithmic equation. Wells with total VOC concentrations that modeled a logarithmic equation or without a clear correlation to time were excluded from further consideration of the zero slope condition.

Finally, a best fit line was applied to the plotted total VOC data for each well, and the slope of the line calculated in ug/l/year. A slope within the range of -5 to +5 ug/l/year was determined to be a zero slope. This range was selected due to the fact that a slope of  $\pm 5$  ug/l/year is equivalent to  $\pm 25$  ug/l after 5 years (or half the total VOC cleanup objective of 50 ug/l). A slope exceeding  $\pm 5$  ug/l/year indicates that total VOC concentrations could be expected to eventually increase above (or decrease below) the cleanup objective. Monitoring wells with normally distributed data and a slope in this range were determined to have a zero slope condition and have therefore achieved termination criteria. A summary of the results of this evaluation is provided in Section 3.0.

The RMP indicates that the County may also seek termination of remediation if contamination can be attributed to off-site (non-FTC) sources, such as those discussed in Sections 1.2 and 1.3. Therefore, D&B has determined the likely source of observed contamination through multiple forms of evidence, including the chemical signature of the contamination, CDM's modeling report and our analysis of the hydrogeology of the area. This is discussed further in Section 4.0, along with the overall status of treatment.

### **3.0 EVALUATION OF TERMINATION CRITERIA**

This section presents D&B's evaluation of the termination criteria for the FTC groundwater remedial system, conducted in accordance with the 1994 RMP. The evaluation was conducted as described in Section 2.3, and included a comparison of the groundwater data from the monitoring well network to selected cleanup objectives. For any monitoring wells that failed the comparison, a statistical analysis was completed to determine if a zero slope condition has been achieved.

The results for each on-site and off-site monitoring well are summarized in Table 3-1 and Table 3-2, respectively, and are discussed below. The RMP Termination Monitoring Wells are included in Table 3-1 and Table 3-2. Monitoring wells which meet termination criteria are highlighted in green. These tables also include information regarding the sampling program for each monitoring well and observations about the data, such as concentration trends and the source of contamination. Total VOC trend graphs for selected monitoring wells are provided in Appendix D. As discussed in Section 2.0, the complete data set for each monitoring well is provided on compact disc in Appendix A and details of the statistical analysis are provided in Appendix C.

#### **3.1 On-Site**

##### 3.1.1 Comparison of Groundwater Data to Cleanup Objectives

As indicated on Table 3-1, two of the 11 on-site Termination Monitoring Wells identified in the 1994 RMP exhibited the selected VOCs or SVOCs at concentrations exceeding groundwater cleanup objectives within the last 2 years (or last four sampling events). These two wells include W-32 and W-35, located in the vicinity of extraction well RW-1. In September 2009, well W-32 exhibited benzene at a concentration of 1.2 ug/l, slightly above the cleanup objective of 1 ug/l. VOC concentrations were higher in W-35, with a maximum total VOC concentration of 157 ug/l detected in September 2009, exceeding the cleanup objective of

**TABLE 3-1  
FIREMAN'S TRAINING CENTER  
ON-SITE MONITORING WELLS  
SUMMARY OF DATA ANALYSIS**

Monitoring Well Meets Termination Criteria

Well ID	Sampling Period (Thru Most Recent Sample)	No. of Sampling Events	Current Sampling Program	Exceedances of Groundwater Cleanup Objectives in Last 2 Years of Sampling <sup>(1)</sup>			Normally Distributed Data <sup>(2)</sup>	Zero-Slope Condition <sup>(3)</sup>	Observations
				Contaminant ID	Concentration Range (ug/l)	Cleanup Objective (ug/l)			
<b>RMP Termination Monitoring Wells</b>									
W-4A	1999-2008	26	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
W-4B	1999-2008	33	5th Quarter Well	None	---	---	---	---	Impacted by landfill leachate. Only VOCs typically indicative of leachate (1,2 and 1,4-dichlorobenzene) were detected above cleanup objectives since 2003.
W-7A	1999-2007	15	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
W-7B	1999-2008	32	5th Quarter Well	None	---	---	---	---	Impacted by landfill leachate. Only VOCs typically indicative of leachate (1,2 and 1,4-dichlorobenzene) were detected above cleanup objectives since 2003.
W-7C	1999-2007	31	Not sampled	None	---	---	---	---	Impacted by landfill leachate. No VOCs detected above cleanup objectives since 2004.
W-9A	1999-2008	23	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period. Two SVOCs (methylphenols) were detected above cleanup objectives in 2006.
W-9B	1999-2007	31	Not sampled	None	---	---	---	---	Some possible impacts by landfill leachate. No VOCs detected above cleanup objectives since 2003.
W-14A	1999-2008	32	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
W-14B	1999-2008	32	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
W-32	2000-2011	38	Semi-Annual	Benzene	BDL - 1.2	1	No, R <sup>2</sup> =79%	No, Slope=-18 ug/l/yr	Impacted by landfill leachate. Only benzene detected slightly above cleanup objective since 2008. Spikes in VOC concentrations in December 2005 and September 2007 may be related to water level intersecting residual soil contamination zone.
W-35	1999-2011	38	Semi-Annual	o-Xylene	BDL - 5.6	5	Yes, R <sup>2</sup> =94%	No, Slope=-15 ug/l/yr	Impacted by landfill leachate. Spikes in VOC concentrations in 2006 and 2008 may be related to water level intersecting residual soil contamination zone.
				Total VOCs	3.3 - 157.4	50			
<b>Additional Monitoring Wells</b>									
W-7D	1999-2007	9	Not sampled	None	---	---	---	---	Some possible impacts by landfill leachate. No VOCs detected above cleanup objectives since 2000.
W-31	1999-2010	12	5th Quarter Well	Benzene	BDL - 1.6	1	No, R <sup>2</sup> =41%	Yes, Slope=-0.3 ug/l/yr	Impacted by landfill leachate. Only benzene detected slightly above cleanup objective since 2006. Spike in VOC concentrations in June 2006 may be related to water level intersecting residual soil contamination zone.

**Notes:**

<sup>(1)</sup> Exceedances evaluated for last 2 years or last 4 sampling rounds, whichever is longer.

<sup>(2)</sup> An R<sup>2</sup> value of 90% or greater was determined to be normally distributed data.

<sup>(3)</sup> In general, a slope of +/- 5 ug/l/year total VOCs was determined to be zero

---: Further statistical analysis not necessary as exceedances of groundwater cleanup objectives were not detected.

BDL: Below Detection Limit

Statistical analysis conducted using data from last 8 sampling events, discounting statistical outliers.

Data includes baseline sampling rounds.

Methylene chloride has been identified as a lab contaminant and not included in this analysis.

**TABLE 3-2  
FIREMAN'S TRAINING CENTER  
OFF-SITE MONITORING WELLS  
SUMMARY OF DATA ANALYSIS**

Monitoring Well Meets Termination Criteria

Well ID	Sampling Period (Thru Most Recent Sample)	No. of Sampling Events	Current Sampling Program	Exceedances of Groundwater Cleanup Objectives in Last 2 Years of Sampling <sup>(1)</sup>			Normally Distributed Data <sup>(2)</sup>	Zero-Slope Condition <sup>(3)</sup>	Observations
				Contaminant ID	Concentration Range (ug/l)	Cleanup Objective (ug/l)			
<b>RMP Termination Monitoring Wells</b>									
BP-2B	1999-2008	29	Not sampled	None	---	---	---	---	Just one VOC detected above cleanup objective (PCE in 2004).
BP-4B	1999-2011	38	Semi-Annual	None	---	---	---	---	VOC concentrations decreased sharply in early 2000s and have since leveled off. No VOCs detected above cleanup objectives since March 2008. FTC was the likely source.
BP-4C	1999-2011	30	Not sampled	Benzene	BDL - 4.1	1	Yes, R <sup>2</sup> =90%	No, Slope=-15 ug/l/yr	VOC concentrations decreased sharply in early 2000s and were decreasing when sampling ended (as directed by NYSDEC) in 2007. Sampling in March 2011 indicated no VOC exceedances. Similar suite of VOCs detected in BP-4B. FTC contamination not expected in "C" zone.
				PCE	2.3 - 26	5			
				1,2-DCE	0.68 - 17	5			
BP-9B	1999-2011	33	5th Quarter Well	Benzene	0.64 - 2.2	1	No, R <sup>2</sup> =84%	No, Slope=-7 ug/l/yr	Slow VOC decrease from 2003 to 2008 with total VOC concentrations generally below 50 ug/l. Sampling in March 2011 indicated no VOC exceedances. Location, chemical signature and historic Freon detections suggest mix of FTC and other sources.
				VC	BDL - 4.1	2			
				1,2-DCE	BDL - 14	5			
BP-9C	1999-2007	25	Not sampled	None	---	---	---	---	Just one VOC detected above cleanup objective (PCE in 2003).
BP-10B	1999-2008	30	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-10C	1999-2011	35	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period. Slowly increasing chlorinated VOCs detected since 2004 from non-FTC source.
BP-12B	1999-2011	38	Semi-Annual	None	---	---	---	---	VOC concentrations decreased through 2006, with no VOCs detected above cleanup objectives since that time. Source was likely FTC and well has cleaned up.

**TABLE 3-2  
FIREMAN'S TRAINING CENTER  
OFF-SITE MONITORING WELLS  
SUMMARY OF DATA ANALYSIS**

Monitoring Well Meets Termination Criteria

Well ID	Sampling Period (Thru Most Recent Sample)	No. of Sampling Events	Current Sampling Program	Exceedances of Groundwater Cleanup Objectives in Last 2 Years of Sampling <sup>(1)</sup>			Normally Distributed Data <sup>(2)</sup>	Zero-Slope Condition <sup>(3)</sup>	Observations
				Contaminant ID	Concentration Range (ug/l)	Cleanup Objective (ug/l)			
<b>Additional Monitoring Wells</b>									
BP-2A	1999-2007	9	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-3A*	1990, 2003-2011	13	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-3B*	1990, 2002-2011	29	Semi-Annual	PCE	3.4 - 16	5	Yes, R <sup>2</sup> =94%	Yes, Slope=-5 ug/l/yr	VOC concentrations decreased sharply in early 2000s and have since leveled off. Non-FTC source (see BP-3C).
BP-3C*	1990, 2002-2011	28	Semi-Annual	PCE	1.6 - 6.6	5	No, R <sup>2</sup> =88%	No, Slope=-21 ug/l/yr	VOC concentrations decreasing since 2006, with total VOC concentration detected below 50 ug/l in March 2011 for the first time since 2003. "C" zone depth, eastern location and presence of VOCs like Freon suggest non-FTC source. CDM modeling supports this conclusion, suggests that this VOC contamination is being captured by recovery wells, especially 6 and 7.
				1,2-DCE	15 - 80	5			
				TCE	BDL - 8.5	5			
				Total VOCs	23.9 - 96.9	50			
BP-12A	1999-2007	29	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-12C	2000-2007	31	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-13B	2000-2008	32	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-13C	2000-2008	32	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
BP-14B	2002-2011	31	Semi-Annual	Benzene	9.8 - 110	1	Yes, R <sup>2</sup> =97%	No, Slope=-216 ug/l/yr	VOC concentrations have decreased sharply through monitoring period (from over 1,000 ug/l total to less than 50 ug/l). March 2011 is the first sampling event in which total VOCs were detected below 50 ug/l. Possible other sources but historically a FTC-impacted well.
				VC	BDL - 2.8	2			
				PCE	15 - 120	5			
				1,2-DCE	5.4 - 65	5			
				TCE	1.4 - 12	5			
				Total VOCs	36.5 - 333	50			
BP-14C	2002-2011	27	5th Quarter Well	PCE	2.4 - 6.4	5	Yes, R <sup>2</sup> =93%	Yes, Slope=-1.8 ug/l/yr	Occasional slight VOC exceedances detected through 2008. Sampling in March 2011 indicated no VOC exceedances. FTC contamination not expected in "C" zone.
				1,2-DCE	1.1 - 9.4	5			
				1,1,1-TCA	BDL - 9.7	5			

**TABLE 3-2  
FIREMAN'S TRAINING CENTER  
OFF-SITE MONITORING WELLS  
SUMMARY OF DATA ANALYSIS**

  : Monitoring Well Meets Termination Criteria

Well ID	Sampling Period (Thru Most Recent Sample)	No. of Sampling Events	Current Sampling Program	Exceedances of Groundwater Cleanup Objectives in Last 2 Years of Sampling <sup>(1)</sup>			Normally Distributed Data <sup>(2)</sup>	Zero-Slope Condition <sup>(3)</sup>	Observations
				Contaminant ID	Concentration Range (ug/l)	Cleanup Objective (ug/l)			
<b>Additional Monitoring Wells (continued)</b>									
BP-15B	2005-2011	17	Semi-Annual	Benzene	3.7 - 8.9	1	Yes, R <sup>2</sup> =94%	Yes, Slope=-2 ug/l/yr	Total VOC concentration fluctuated through 2010 to a maximum of nearly 400 ug/l. Decreased to 160 ug/l in March 2011. Analysis indicates zero slope although long-term trends are unclear. Eastern location and presence of VOCs like Freon suggest non-FTC source. CDM modeling supports this conclusion, suggests that this VOC contamination is being captured by recovery wells, especially 6 and 7.
				VC	20 - 47	2			
				PCE	11 - 43	5			
				1,2-DCE	71 - 180	5			
				TCE	5.5 - 14	5			
				1,1-DCA	14 - 36	5			
				1,1,1-TCA	1.9 - 12	5			
				o-Xylene	3.0 - 5.2	5			
			Total VOCs	161 - 399	50				
BP-15C	2005-2011	12	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
U-6A	1999-2007	8	Not sampled	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
OBV-1B	2005-2008	11	5th Quarter Well	None	---	---	---	---	No VOCs detected above cleanup objectives in sampling period.
OBV-1C	2005-2008	11	5th Quarter Well	1,1-DCA	4.7 - 6.6	5	Yes, R <sup>2</sup> =93%	Yes, Slope=+1.3 ug/l/yr	Upgradient well that suggests regional input of chlorinated VOCs to "C" zone. Total VOCs generally detected around 10-20 ug/l.
RB-1	1999-2007	9	Not sampled	None	---	---	---	---	Just two VOCs detected above their respective cleanup objectives (PCE in 1999 and MTBE in 2003).

**Notes:**

<sup>(1)</sup> Exceedances evaluated for last 2 years or last 4 sampling rounds, whichever is longer.

<sup>(2)</sup> An R<sup>2</sup> value of 90% or greater was determined to be normally distributed data.

<sup>(3)</sup> In general, a slope of +/- 5 ug/l/year total VOCs was determined to be zero

\*: Well cluster BP-3 recognized by NYSDEC as impacted by non-FTC sources in ROD.

Statistical analysis conducted using data from last 8 sampling events, discounting statistical outliers.

Data includes baseline sampling rounds.

Methylene chloride has been identified as a lab contaminant and not included in this analysis.

---: Further statistical analysis not necessary as exceedances of groundwater cleanup objectives were not detected.

**Abbreviations:**

VC: Vinyl Chloride

PCE: Tetrachloroethene

TCE: Trichloroethene

1,1-DCA: 1,1-Dichloroethane

1,1-DCE: 1,1-Dichloroethene

1,1,1-TCA: 1,1,1-Trichloroethane

1,2-DCE: 1,2-Dichloroethene

BDL: Below Detection Limit



50 ug/l. The concentration of o-xylene also exceeded its cleanup objective in this time period. Both W-32 and W-35 are currently sampled semiannually.

### 3.1.2 Statistical Analysis

For the two on-site Termination Monitoring Wells that failed to meet cleanup objectives (W-32 and W-35), total VOC concentrations were evaluated for a zero slope condition in accordance with the RMP. The distribution of the data is marked by generally low VOC and SVOC concentrations during most sampling events with occasional “spikes” in VOC concentrations. Spikes in total VOC concentrations in 2006 and 2007 were as high as 1,778 ug/l in well W-32 and 5,600 ug/l in well W-35, and consisted generally of BTEX and benzene-containing compounds. As a result, the data for Termination Monitoring Well W-32 was not normally distributed. For Termination Monitoring Well W-35, the data was normally distributed, but exceeded a slope of 5 ug/l/year for total VOCs. Therefore, these two Termination Monitoring Wells did not meet the zero slope criterion.

### 3.1.3 Summary

In summary, two of the 11 on-site Termination Monitoring Wells failed to meet the termination criteria specified in the RMP, including:

- W-32
- W-35

For Termination Monitoring Well W-32, total VOC concentrations were below the cleanup objective of 50 ug/l, with a one-time exceedance of the cleanup objective for benzene detected within the last 2 years (or last four sampling events). Total VOC concentrations were higher in W-35, above 50 ug/l several times within the past 2 years. In general, the data for these two wells is characterized by low VOC and SVOC concentrations with occasional “spikes” in VOC concentrations. A discussion regarding the source of the contaminants and the overall status of on-site treatment is presented in Section 4.1.

## 3.2 Off-Site

### 3.2.1 Comparison of Groundwater Data to Cleanup Objectives

As indicated on Table 3-1, two of the eight off-site Termination Monitoring Wells identified in the 1994 RMP exhibited the selected VOCs or SVOCs at concentrations exceeding groundwater cleanup objectives within the last 2 years (or last four sampling events). These two wells include BP-4C, located immediately west of extraction well ORW-3, and BP-9B, located immediately northwest of extraction well ORW-6. BP-4C exhibited benzene, PCE and 1,2-DCE above their respective cleanup objectives in quarterly sampling conducted through 2007. In March 2008, the NYSDEC agreed to discontinue sampling of this well. VOC concentrations had been steadily decreasing in BP-4C when sampling ended, and total VOC concentrations were below the cleanup objective of 50 ug/l. In March 2011, the County sampled this well to obtain new groundwater quality data, and VOCs were not detected above cleanup objectives.

Sampling of well BP-9B conducted through 2007 occasionally exhibited benzene, vinyl chloride and 1,2-DCE above their respective cleanup objectives, but total VOC concentrations below the cleanup objective of 50 ug/l. After 2007, this well has been sampled on a 5th quarter basis. During the most recent sampling conducted in March 2011, VOCs were not detected above cleanup objectives.

### 3.2.2 Statistical Analysis

For the two off-site Termination Monitoring Wells that failed to meet cleanup objectives, total VOC concentrations were evaluated for a zero slope condition in accordance with the RMP. These two wells (BP-4C and BP-9B) have exhibited a recent decreasing trend in total VOC concentrations. Therefore, these wells did not achieve the zero slope condition.

### 3.2.3 Summary

In summary, two of the eight off-site Termination Monitoring Wells failed to meet the criteria specified in the RMP, including:

- BP-4C
- BP-9B

Although a number of individual VOCs exceeded cleanup objectives in the two Termination Monitoring Wells (BP-4C and BP-9B) through 2007, total VOC concentrations were below the cleanup objective of 50 ug/l. In addition, VOCs were not detected above individual cleanup objectives during the most recent sampling round conducted in March 2011. Overall, VOC concentrations in monitoring wells that could possibly be associated with the FTC plume, including the two Termination Monitoring Wells and BP-14B, have generally exhibited sharp decreases since the start of treatment and have decreased below the cleanup objective for total VOCs of 50 ug/l. The highest VOC concentrations are currently associated with eastern wells impacted by non-FTC sources, including BP-3C and especially BP-15B. A further discussion regarding the source of the contaminants and the overall status of off-site treatment is presented in Section 4.2.

## **4.0 STATUS OF TREATMENT**

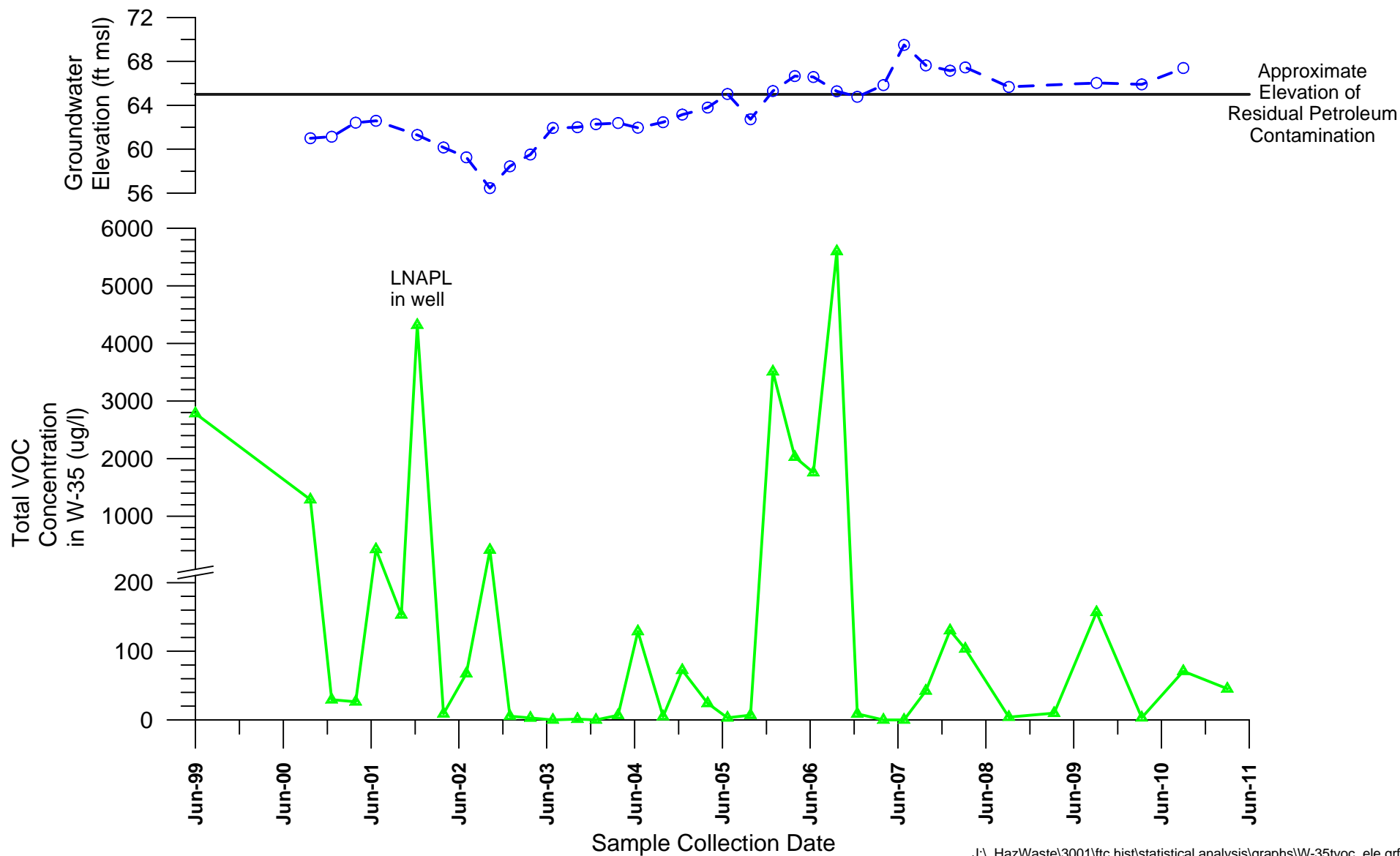
This section presents an evaluation of the status of groundwater treatment for the FTC site and the off-site groundwater plume. The evaluation includes a discussion of the effectiveness of the treatment based on the achievement of termination criteria as presented in Section 3.0, as well as on the past and current concentrations of contaminants in the on-site and off-site groundwater monitoring well network, extraction wells and system influent. As previously discussed, historical monitoring well data is provided on compact disc in Appendix A and total VOC trend graphs for selected monitoring wells are provided in Appendix D.

The possible source of observed groundwater contamination is also considered. There are multiple non-FTC sources of groundwater contamination located in close proximity to the FTC site which are impacting FTC monitoring and extraction wells. This is important since the RMP indicates that the County may also seek termination of the treatment system if contamination is attributable to sources other than the FTC.

### **4.1 On-Site**

As discussed in Section 3.1, a total of two on-site Termination Monitoring Wells (W-32 and W-35) failed to meet the termination criteria specified in the RMP. The distribution of the data is marked by generally low VOC and SVOC concentrations during most recent sampling events with occasional “spikes” in VOC concentrations (see trend graphs for W-32 and W-35 in Appendix D). Wells W-32 and W-35 are located in the vicinity of extraction well RW-1 in the former flammable liquids area. The type of VOCs that have been observed, generally BTEX and benzene-containing compounds, are consistent with historical impacts in this area.

The County and NYSDEC are aware of an isolated area of residual petroleum contamination that is present in the soil in the vicinity of RW-1 at an elevation of approximately 65 feet above mean sea level (msl). In fact, the County and the NYSDEC utilize a previously negotiated groundwater elevation of 65 feet as a “trigger value” to require additional analyses of the groundwater samples, such as SVOCs. Figure 4-1 depicts the total VOC concentrations and



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groundwater elevation in well W-35 over time. In general, total VOC concentrations detected in well W-35 tend to be significantly higher when the water elevation is around 65 feet above msl, such as in 2006. This data suggests that the residual petroleum contamination is the source of VOCs detected in wells W-32 and W-35. Recent sampling of groundwater from nearby wells W-11 and W-28 did not detect VOCs or SVOCs above cleanup objectives, suggesting that impact to groundwater from the residual petroleum contamination is limited in the area immediately around RW-1.

The history of on-site groundwater treatment further supports this residual petroleum contamination as the source of the on-site VOC contamination in groundwater. On-site groundwater treatment was initiated in 1999 with the pumping of three extraction wells (RW-1, 2 and 3). Due to low concentrations of VOCs detected in these extraction wells, on-site treatment was suspended from November 2002 through September 2006. As discussed in Section 1.1, on-site LNAPL recovery had been completed by that time. In addition, local groundwater levels were well below the elevation of the residual petroleum contamination (see Figure 4-1). When groundwater levels rose to an elevation of approximately 65 feet msl in 2006, increased VOCs were detected in the well W-35 and extraction well RW-1, and treatment was resumed.

The initial on-site treatment included the recovery of over 4,500 gallons of LNAPL from RW-3, with measurable LNAPL not observed after 2002. As the LNAPL was recovered from the FTC site, concentrations of VOCs detected in the closest monitoring wells located downgradient of the FTC site decreased significantly. For example, total VOC concentrations in downgradient Termination Monitoring Well BP-4B decreased from over 1,000 ug/l in 1999 to a non-detectable concentration in 2010. See Section 4.2 below for a discussion regarding the off-site FTC groundwater plume. The off-site results suggest that the completed treatment, including LNAPL recovery from extraction well RW-3 and groundwater treatment at extraction wells RW-1 and RW-2, was successful in effectively eliminating the source of the off-site FTC groundwater plume. The impact to groundwater from the residual petroleum contamination in the vicinity of RW-1 appears to be confined to this area and does not appear to have migrated off-site.

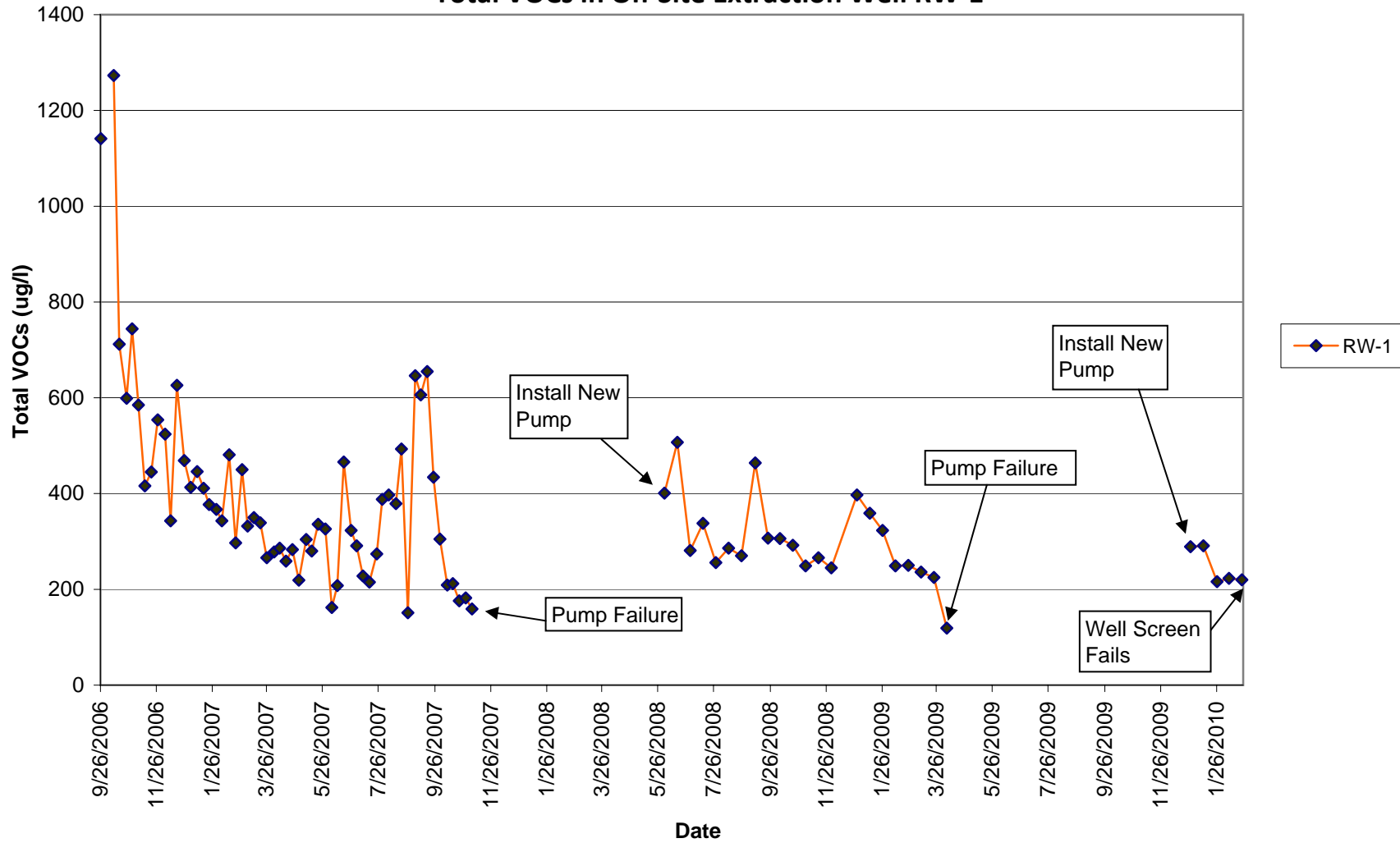
Regarding recent treatment, the presence of landfill leachate from the adjacent Old Bethpage Landfill has produced severe iron fouling of the pump and piping, resulting in a number of system shutdowns and significant additional maintenance costs. All on-site treatment has been suspended since February 2010 due to an apparent failure in the well screen for RW-1. Total VOC concentrations in RW-1 since treatment was resumed in 2006 are provided as Figure 4-2. As depicted on Figure 4-2, total VOC concentrations in RW-1 decreased once treatment was resumed but were consistently detected at approximately 200 ug/l at the time of the well screen failure in 2010. This data suggests that any further improvement from additional treatment would be minimal. Recommendations regarding the future of groundwater treatment on-site are presented in Section 5.0.

## **4.2 Off-Site**

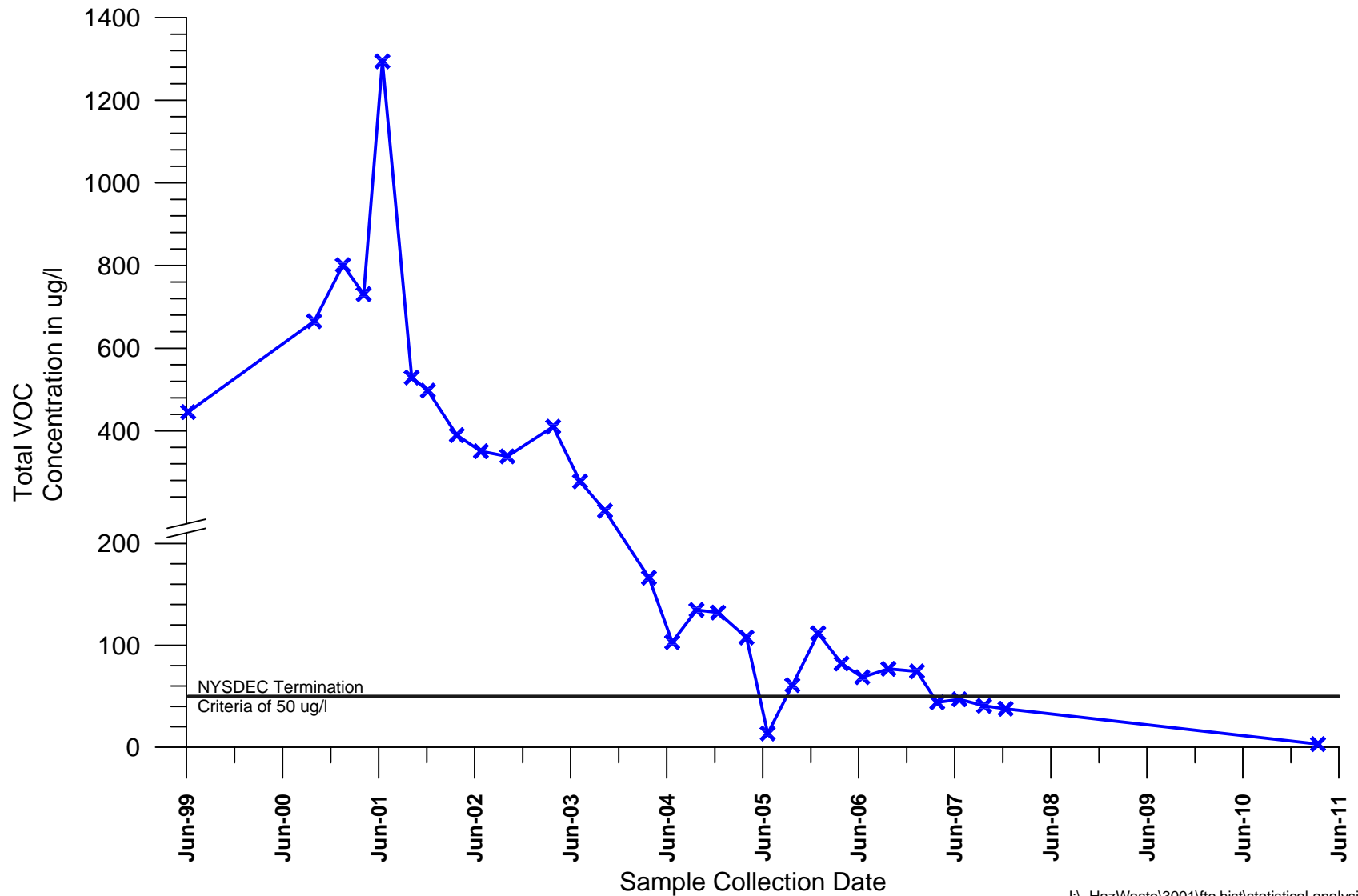
As discussed in Section 3.2, a total of two off-site Termination Monitoring Wells (BP-4C and BP-9B) failed to meet the termination criteria specified in the RMP. An off-site monitoring well location map is provided as Figure 1-1. Based on their western location, chemical signature and the previously completed groundwater modeling, these two Termination Monitoring Wells, in addition to monitoring well BP-14B, could have been affected by the FTC plume. Figures 4-3, 4-4 and 4-5 depict total VOC concentrations over time in monitoring wells BP-4C, BP-9B and BP-14B, respectively. As indicated on Figures 4-3, 4-4 and 4-5, these wells have generally exhibited sharp decreases in total VOCs since the start of treatment and have decreased below the cleanup objective for total VOCs of 50 ug/l. In fact, Termination Monitoring Wells BP-4C and BP-9B did not exhibit any individual VOCs above cleanup objectives during the most recent sampling round conducted in March 2011.

Overall, the historical data and trend graphs provided in Appendix A and Appendix D, respectively, indicate sharp decreases in total VOCs for all monitoring wells that were impacted by the FTC plume. For example, Termination Monitoring Well BP-4B, located adjacent to extraction well ORW-3, has not exhibited a total VOC concentration above 50 ug/l since 2004.

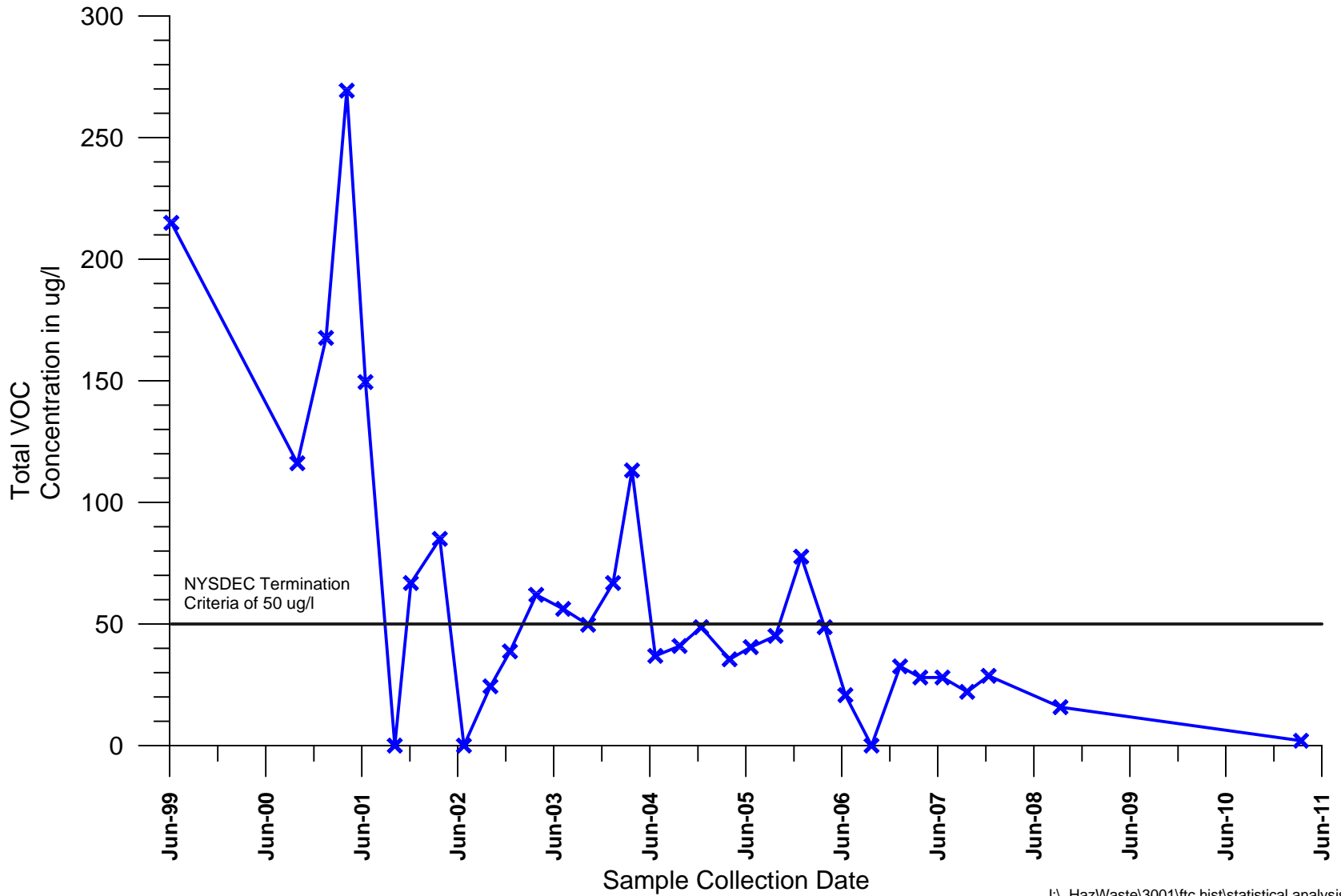
**Figure 4-2**  
**Fireman's Training Center**  
**Total VOCs in On-Site Extraction Well RW-1**



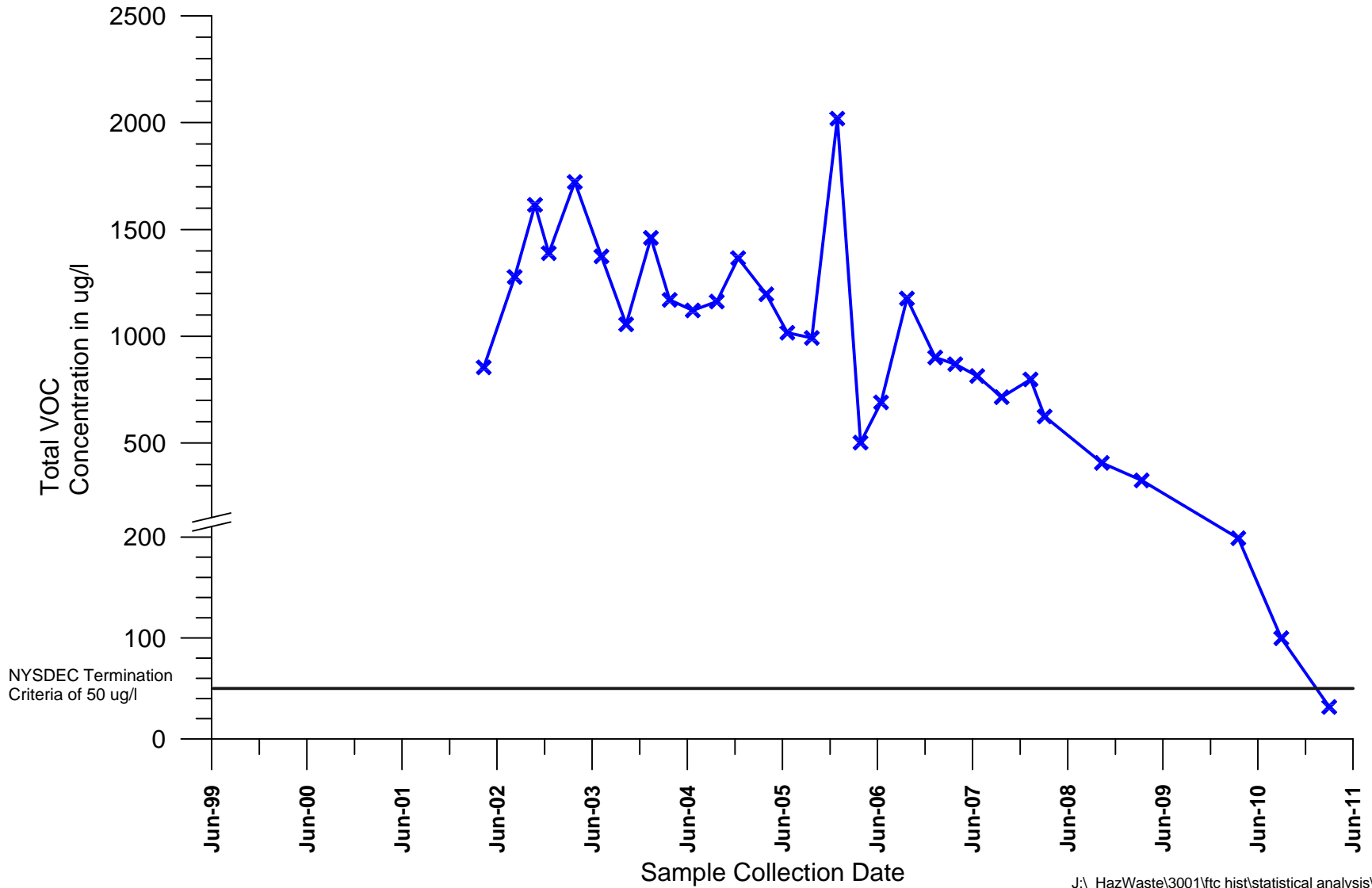




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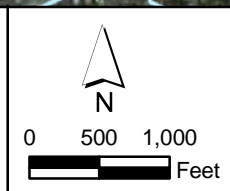
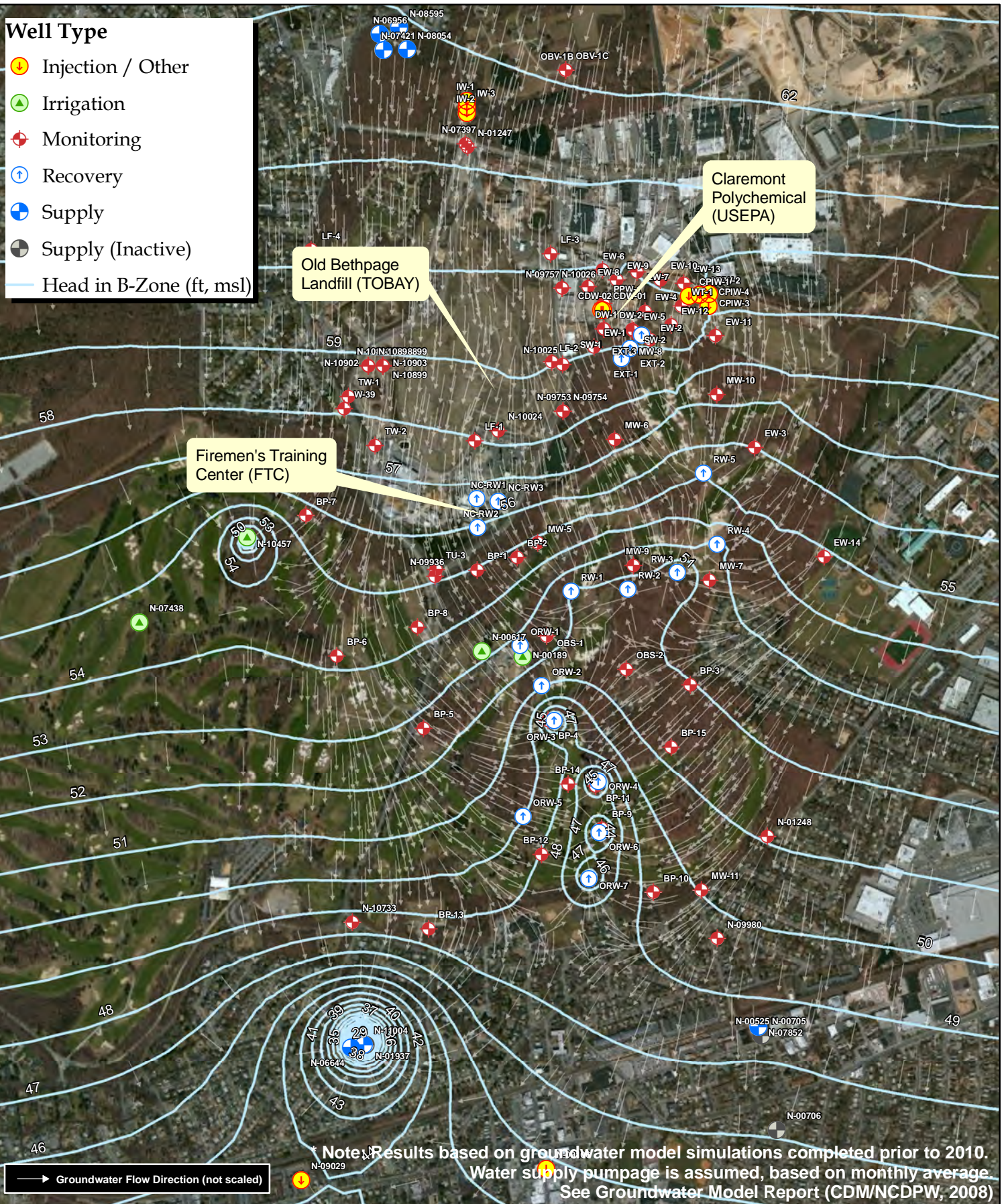
BP-4B had exhibited total VOC concentrations above 1,000 ug/l just 3 years prior in 2001. Similar results are exhibited by Termination Monitoring Well BP-12B, located southwest of extraction well ORW-6.

These significant improvements in VOC concentrations suggest that the remedial system has been successful in capturing and remediating the FTC plume. Furthermore, any residual of the FTC plume appears to be confined to the area between ORW-3 and ORW-6, and at relatively low concentrations below the cleanup objective for total VOCs of 50 ug/l.

Based on their eastern location, chemical signature (such as the presence of dichlorodifluoromethane) and the previously completed groundwater modeling, monitoring wells BP-3C and BP-15B are impacted by non-FTC sources. As indicated on the trend graphs in Appendix D, the total VOC concentrations in these two wells (especially BP-15B) are generally higher than in wells impacted by the FTC plume and exhibit less improvement. Well BP-15B, located closest to the FTC extraction wells, has exhibited total VOC concentrations as high as 399 ug/l in the past 2 years, well above the cleanup objective of 50 ug/l. As discussed in Section 1.3, previously completed groundwater modeling runs demonstrated that some eastern groundwater impacted by non-FTC sources of VOC contamination was being captured by the FTC extraction wells. This is illustrated in Figure 4-6, provided by CDM, which depicts groundwater flow vectors in the B-Zone with pumping of the various remedial systems. As indicated in Figure 4-6, the area to the east of the FTC extraction wells that is impacted by non-FTC VOC contamination provides a large component of the system influent, especially to the southernmost extraction wells ORW-4, 6 and 7.

**Well Type**

- Injection / Other
- Irrigation
- Monitoring
- Recovery
- Supply
- Supply (Inactive)
- Head in B-Zone (ft, msl)

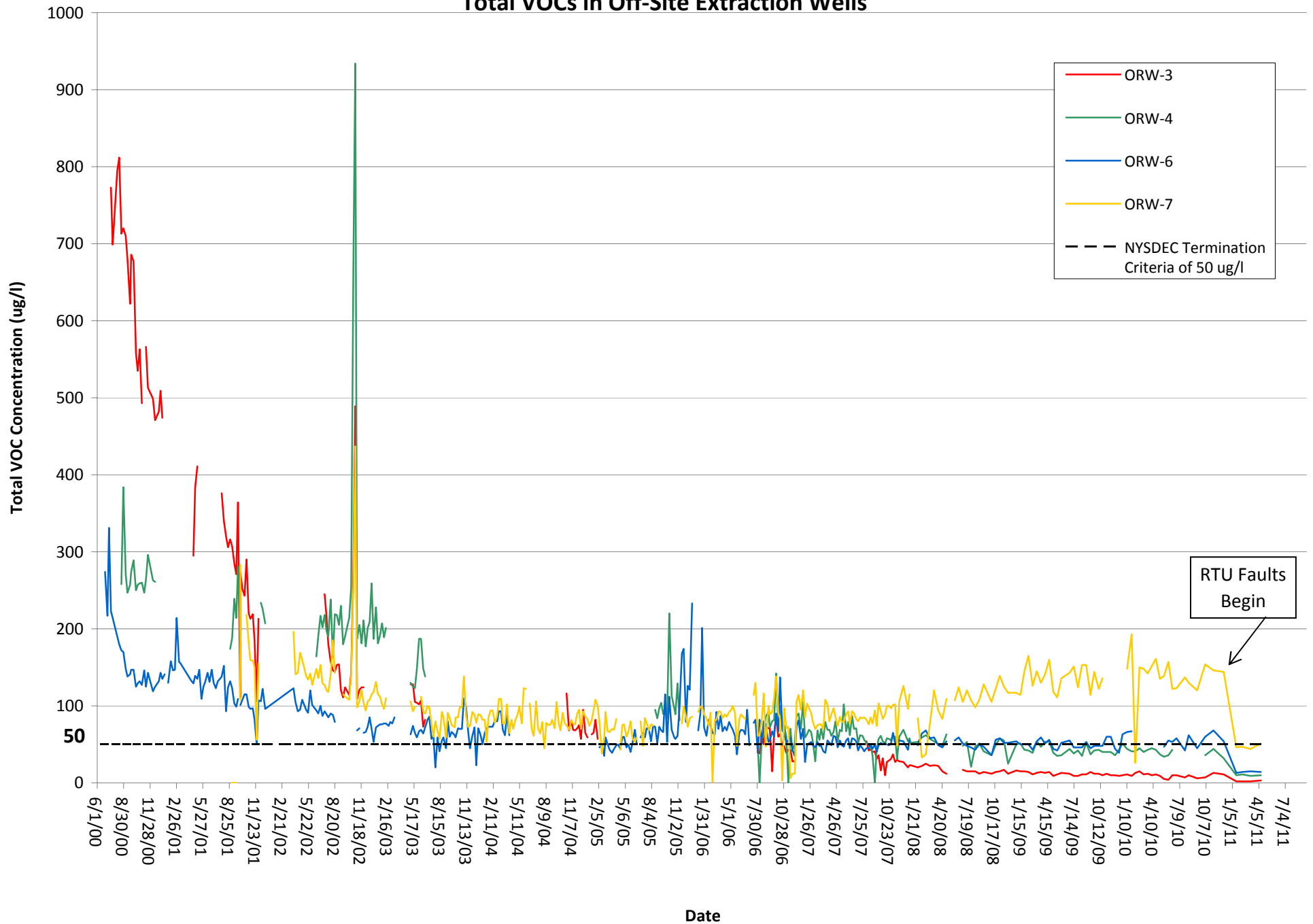


**Figure 4-6**  
**Vector Groundwater Flow Diagram**  
**Simulated Head in B-Zone: July 2010**  
**Supply Pumping Inferred\***

Given the successful remediation of the FTC plume and the modeling results discussed above, it can be assumed that most of the remaining VOCs being captured by the FTC off-site extraction wells are from non-FTC sources. A graph depicting total VOC concentration trends from 2000 through 2011 for active off-site extraction wells ORW-3, 4, 6 and 7 is provided as Figure 4-7. The graph shows a general decreasing trend, especially for the first few years of treatment, reflecting the remediation of the FTC plume. For example, total VOC concentrations in ORW-3, the northernmost active extraction well and closest to the FTC site, were initially the highest at over 800 ug/l in 2000, but decreased to approximately 10 ug/l by 2010, below the cleanup objective of 50 ug/l. However, the highest recent total VOC concentrations have been detected in the extraction wells located further to the east and south. ORW-7, the southernmost extraction well and south of any remaining residual of the FTC plume, has consistently exhibited total VOC concentrations over 100 ug/l. This data is consistent with the modeling results discussed above, which suggested that eastern groundwater impacted by non-FTC sources was being captured primarily by the southernmost FTC extraction wells (Figure 4-6).

It should be noted that the off-site extraction system has been operating sporadically throughout most of 2011 due to mechanical problems. The lack of steady pumpage has reduced the size of the combined capture zone created by the four active extraction wells. The total VOC data depicted on Figure 4-7 indicates a sharp decrease in concentrations in 2011, with all four active extraction wells exhibiting total VOC concentrations below the cleanup objective of 50 ug/l. It can be concluded that the reduced capture zone has resulted in a decrease in the capture of eastern non-FTC contamination, manifested in the observed decrease in total VOC concentrations. Therefore, this decrease in VOC concentrations provides further evidence that the FTC extraction wells have been primarily capturing non-FTC contamination.

**Figure 4-7**  
**Fireman's Training Center**  
**Total VOCs in Off-Site Extraction Wells**



## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Presented below are conclusions based on D&B's evaluation of groundwater treatment at the FTC, and recommendations regarding the future of groundwater treatment. A summary of findings is provided where needed for explanatory purposes.

### 5.1 On-Site

- Two of the 11 on-site Termination Monitoring Wells (W-32 and W-35) failed to meet the criteria specified in the RMP. These wells exhibited generally low VOC and SVOC concentrations with occasional "spikes" in VOC concentrations generally consisting of BTEX and benzene-containing compounds.
- A comparison of water level data to VOC concentrations suggests that the source of these VOCs is an isolated area of residual petroleum contamination present in the soil in the vicinity of extraction well RW-1. VOC concentrations tend to spike when the water table intersects this residual petroleum contamination.
- The initial on-site treatment included the recovery of over 4,500 gallons of LNAPL from extraction well RW-3 and groundwater treatment at extraction wells RW-1 and RW-2. Based on observed decreases in VOC concentrations downgradient of the FTC site, it appears that this treatment was successful in effectively eliminating the source of the off-site FTC groundwater plume.
- Given the improving groundwater quality downgradient of the FTC site, the groundwater impact from the residual petroleum contamination appears to be confined to the area around RW-1 and does not appear to have migrated off-site. The detection of VOCs at a consistent concentration in extraction well RW-1 at the time of the failure of the well screen in 2010 suggests that any further improvement in on-site groundwater quality from additional treatment would be minimal.
- Over the course of on-site treatment, the presence of landfill leachate from the adjacent Old Bethpage Landfill has produced severe iron fouling of the pump and piping. This fouling has resulted in numerous system shutdowns and significant additional maintenance costs. The treatment system is currently shut down due to the well screen failure of RW-1.
- Based on the removal of the source of the off-site FTC groundwater plume, there is no longer any benefit to continued on-site groundwater treatment.
- It is recommended that the County petition the NYSDEC to terminate on-site groundwater treatment and monitoring. Additional on-site groundwater monitoring is



not recommended given the elimination of the source of the off-site FTC groundwater plume.

## 5.2 Off-Site

- Two of the eight off-site Termination Monitoring Wells (BP-4C and BP-9B) failed to meet the criteria specified in the RMP. However, these wells have generally exhibited sharp decreases in total VOCs since the start of treatment and have decreased below the cleanup objective for total VOCs of 50 ug/l. In fact, these two Termination Monitoring Wells did not exhibit any VOCs above cleanup objectives during the most recent sampling round conducted in March 2011.
- All monitoring wells that were impacted by the FTC plume have exhibited sharp decreases in total VOCs, with most of the wells no longer exhibiting any individual VOCs above cleanup objectives. The data suggests that the remedial system has been very successful in capturing and remediating the FTC plume, with any residual of the plume confined to the area between extraction wells ORW-3 and ORW-6, and at relatively low total VOC concentrations below the cleanup objective of 50 ug/l.
- Monitoring wells BP-3C and BP-15B are located to the east of the FTC extraction wells and have been impacted by non-FTC sources. Several possible sources have been identified by the County in the area (e.g. Claremont Polychemical). Previously completed groundwater modeling runs demonstrated that some eastern groundwater in the B-Zone that is impacted by non-FTC sources of VOC contamination, such as observed in well BP-15B, would be captured by the FTC extraction wells, especially the southernmost extraction wells (e.g. ORW-7).
- Given the successful remediation of the FTC plume, it can be assumed that the remaining VOCs being captured by the FTC off-site extraction wells are from non-FTC sources. The total VOC concentration data for the extraction wells are consistent with this assumption, with higher total VOC concentrations in the southernmost extraction wells. In addition, total VOC concentrations in the extraction wells dropped sharply in 2011 as the remedial system has been experiencing sporadic shutdowns, reflecting a decrease in the zone of capture and a sharp reduction in the capture of eastern non-FTC contamination.
- Given the successful remediation of the FTC plume and the fact that treatment system is now capturing primarily non-FTC contamination, it is recommended that the County petition the NYSDEC to terminate off-site groundwater treatment and begin post termination monitoring. Post termination monitoring would include the eight Termination Monitoring Wells specified in the RMP.

**APPENDIX A**

**HISTORICAL MONITORING WELL DATA  
(ON COMPACT DISC)**

**TABLE 1  
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
ON-SITE MONITORING WELL DATA  
WELL NUMBER FTC-W-4A**

FTC-W-4A	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards						
	6/10/99	6/14/00	9/25/00	12/27/00	3/27/01	6/21/01					6/26/03	10/7/03	12/19/03	3/23/04	6/17/04	9/27/04	12/15/04	4/1/05	6/21/05	9/26/05	12/22/05	3/20/06	6/14/06	9/25/06	12/14/06	3/27/07	6/18/07	9/17/07		12/17/07		9/4/08			
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																																			
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Benzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	NA	NA	NA	NA	NA	NA					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Acetone	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	--
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Chloroform	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
tert-Butyl Benzene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.3 B
N-Butylbenzene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
p-Diethylbenzene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
p-Ethyltoluene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>					<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>16.4</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.3</b>	<b>50</b>	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																																			
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	
Di-n-Butyl Phthalate	BDL	BDL	BDL	BDL	BDL	BDL					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
Nitrobenzene	NA	NA	NA	NA	NA	NA					BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
2-Methylphenol	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
3+4-Methylphenol	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Diethyl Phthalate	NA	NA	NA	NA	NA	NA					NA	NA	NA	NA	NA																				

**TABLE 2  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 ON-SITE MONITORING WELL DATA  
 WELL NUMBER FTC-W-4B**

FTC-W-4B	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards					
	6/10/99	9/27/00	12/27/00	3/27/01	4/27/01	6/21/01	9/26/01	12/10/01	3/28/02	6/21/02	10/7/02	12/19/02	3/24/03	6/26/03	10/7/03	12/19/03	3/23/04	6/17/04	9/27/04	12/15/04	4/1/05	6/21/05	9/26/05	12/22/05	3/20/06	6/14/06	9/25/06	12/14/06		3/27/07	6/18/07	9/17/07	12/17/07	9/4/08
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																																		
Vinyl Chloride	BDL	1.9	BDL	1.4	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	2.1	BDL	BDL	BDL	1.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Benzene	BDL	1.3	BDL	1.1	BDL	2.2	BDL	1.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	1.8	2.5	BDL	2.0	BDL	4.1	BDL	3.0	2.1	BDL	BDL	1.8	BDL	BDL	1.8	1.9	4.1	1.6	2.6	2.8	1.7	BDL	1.3	1.9	2.0	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
N-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
tert-Butyl Benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
p-Diethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
1,4-Dichlorobenzene	7.2	4.5	BDL	BDL	BDL	3.3	BDL	7.8	6.1	BDL	BDL	BDL	BDL	BDL	2.6	BDL	BDL	BDL	BDL	BDL	3.2	BDL	2.1	BDL	BDL	3.1	BDL	3.2	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	2.1	BDL	BDL	BDL	BDL	BDL	BDL	2.9	BDL	BDL	2.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
<b>Total VOCs</b>	11.1	12.3	0.0	4.5	0.0	13.5	0.0	14.9	8.2	0.0	2.4	1.8	10.3	0.0	4.4	1.9	4.1	4.4	2.6	5.0	4.9	0.0	4.8	3.5	2.0	8.1	0.0	4.2	0.0	0.0	0.0	4.0	50	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																																		
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20	
Di-n-Butyl Phthalate	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,2-Dichlorobenzene	2.3	27.8	BDL	BDL	BDL	BDL	BDL	13.5	BDL	BDL	2.1	BDL	5.5	7.8	5.2	4.7	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Nitrobenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
Phenanthrene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Anthracene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Diethyl Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	NA	NA	NA	NA	NA																													

**TABLE 3  
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
ON-SITE MONITORING WELL DATA  
WELL NUMBER FTC-W-7A**

FTC-W-7A	SAMPLED																			NYSDEC Class GA Groundwater Standards	
	6/10/99	6/14/00				6/18/04		12/13/04	3/30/05	6/24/05	9/22/05	12/19/05	3/20/06	7/3/06	9/18/06	12/14/06	4/5/07	7/2/07	9/17/07		12/13/07
<b>VOLATILE ORGANICS COMPOUNDS</b>																					
Vinyl Chloride	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	Well Dry No Sample for Sept	Well Dry No Sample for Sept	Well Dry No Sample for Sept	NA		NA	NA	NA		NA	BDL	BDL	BDL	BDL	NA	NA	NA	NA	1
1,2,4,5-Tetramethylbenzene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
c-1,2-Dichloroethene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Benzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	NA	NA				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Acetone	NA	NA				NA		NA	NA	NA		NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	50
Dichlorodifluoromethane	NA	NA				NA		NA	NA	NA		NA	BDL	BDL	BDL	BDL	NA	NA	NA	NA	5
Ethyl Benzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	NA	NA				NA		NA	NA	NA		NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
m,p-Xylene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA				NA		NA	NA	NA		NA	BDL	BDL	BDL	BDL	BDL	LA	LA	BDL	5
n-Propylbenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
N-Butylbenzene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
4-Isopropyltoluene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
1,3,5-Trimethylbenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
sec-Butyl Benzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,4-Dichlorobenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Hexachlorobutadiene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Naphthalene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
tert-Butyl Benzene	NA	NA				NA		NA	NA	NA		NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	50
1,2,3-Trichlorobenzene	BDL	BDL				BDL		BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Diethylbenzene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
p-Ethyltoluene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL				BDL		BDL	BDL	BDL		BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
<b>Total VOCs</b>	0.0	0.0				0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>																					
Acenaphthene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	NA	20
Di-n-Butyl Phthalate	BDL	BDL				NA		NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	50
1,2-Dichlorobenzene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,3-Dichlorobenzene	NA	NA				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
2-Methylnaphthalene	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	50
2-Methylphenol	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	1
3+4-Methylphenol	NA	NA				NA		NA	NA	NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	1
Nitrobenzene	NA	NA				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
N-Nitrosodi-n-Propylamine	NA	NA				BDL		6.7	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Bis(2-Ethylhexyl)Phthalate	NA	NA				NA		NA	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Assorted Semi-Vol. Org. Compounds	BDL	BDL				NA		NA	LA	BDL		BDL	NA	NA	NA	NA	NA	NA	NA	NA	--
Diethyl Phthalate	NA	NA				NA		NA	NA	NA		NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,4-Dichlorobenzene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
2,4-Dinitrotoluene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Fluorene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Naphthalene	BDL	BDL				BDL		BDL	LA	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
<b>Total Semi-VOCs</b>	0.0	0.0				0.0		6.7	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
<b>INORGANIC PARAMETERS</b>																					
ph	5.57	5.76				NA		NA	NA	6.03		NA	NA	5.5	NA	NA	NA	5.55	NA	NA	--
Specific Conductance	263	254				NA		NA	NA	76		NA	NA	100	NA	NA	NA	80	NA	NA	--
Alkalinity as Calcium Carbonate	16	21.9				NA		NA	NA	12		NA	NA	5	NA	NA	NA	14	NA	NA	--
B.O.D.	BDL	BDL				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--
Chemical Oxygen Demand	BDL	BDL				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--
Hardness, Total	55.3	52.2				NA		NA	NA	19.5		NA	NA	19.9	NA	NA	NA	18.6	NA	NA	--
Nitrate as N	1.69	0.76				NA		NA	NA	0.27		NA	NA	0.29	NA	NA	NA	BDL	NA	NA	10
Total Phosphorus as P	BDL	BDL				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--
Sodium, Total	21.9	18.2				NA		NA	NA	4.87		NA	NA	9.39	NA	NA	NA	8.7	NA	NA	20
Total Kjeldahl as N	0.21	BDL				NA		NA	NA	BDL		NA	NA	0.21	NA	NA	NA	BDL	NA	NA	--
Ammonia as N	BDL	BDL				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	BDL	NA	NA	2
Sulfate	29	28.9				NA		NA	NA	10.3		NA	NA	10	NA	NA	NA	4.97	NA	NA	250
Chloride	37.5	37.5				NA		NA	NA	5		NA	NA	15	NA	NA	NA	23	NA	NA	250
Total Dissolved Solids	137	149				NA		NA	NA	47		NA	NA	69	NA	NA	NA	60	NA	NA	--
Total Suspended Solids	BDL	8.5				NA		NA	NA	3		NA	NA	BDL	NA	NA	NA	28	NA	NA	--
Arsenic	NA	NA				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	BDL	NA	NA	0.025
Aluminum, Total	BDL	0.237				NA		NA	NA	0.022		NA	NA	0.113	NA	NA	NA	0.023	NA	NA	--
Iron, Total	0.005	0.174				NA		NA	NA	0.012		NA	NA	0.046	NA	NA	NA	BDL	NA	NA	0.3
Manganese, Total	0.003	0.012				NA		NA	NA	0.003		NA	NA	0.01	NA	NA	NA	0.009	NA	NA	0.3
Nickel, Total	0.012	0.009				NA		NA	NA	BDL		NA	NA	BDL	NA	NA	NA	0.001	NA	NA	0.1
Chromium, Total	BDL	0.012				NA		NA	NA	BDL		NA	NA	0.002	NA	NA	NA	0.001	NA	NA	0.05

Notes:  
Data obtained from NCDPW  
ug/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
: Analytes and groundwater cleanup criteria specified for termination of remedial system  
: Constituent exceeds NYSDEC Class GA Groundwater Standards  
--: Not established





**TABLE 6  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 ON-SITE MONITORING WELL DATA  
 WELL NUMBER FTC-W-7D**

FTC-W-7D	DATE SAMPLED									NYSDEC Class GA Groundwater Standards
	6/8/99	6/14/00	6/19/01	6/21/02	6/27/03	6/18/04	6/24/05	7/3/06	7/2/07	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>										
Vinyl Chloride	2.4	3.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	1.3	3.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	BDL	NA	1
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	--
c-1,2-Dichloroethene	3.6	14.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Benzene	BDL	5.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Acetone	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	50
Chloroform	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	7
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	BDL	NA	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	50
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	--
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,4-Dichlorobenzene	1.4	4.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	BDL	LA	5
N-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
tert-Butyl Benzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	5
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Diethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	--
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
<b>Total VOCs</b>	<b>8.7</b>	<b>33.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>50</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>										
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Di-n-Butyl Phthalate	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,3-Dichlorobenzene	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	3
Nitrobenzene	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	0.4
Phenanthrene	NA	NA	NA	BDL	NA	NA	NA	NA	NA	50
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	--
Diethyl Phthalate	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	50
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	5
Assorted Semi-Vol. Org. Compounds	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	--
1,4-Dichlorobenzene	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	3
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	50
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	1
3+4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	1
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>--</b>
<b>INORGANIC PARAMETERS (mg/l)</b>										
ph	5.17	5.64	6.69	5.79	5.72	5.31	6.05	6.16	6.82	--
Specific Conductance	486	464	248	260	288	382	410	425	415	--
Alkalinity as Calcium Carbonate	14	39.8	187	22	10.0	7.0	6.0	8.0	20.00	--
B.O.D.	2	2.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Chemical Oxygen Demand	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Hardness, Total	68.2	34.0	25.8	32.9	41.1	55.6	58.8	57.9	58.1	--
Nitrate as N	1.57	2.05	2.74	2.42	2.39	2.43	2.34	2.45	0.226	10
Total Phosphorus as P	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Sodium, Total	57.7	54.4	0.017	22.9	29.3	39.4	46.8	45.6	51.1	20
Total Kjeldahl as N	1.15	3.77	2.80	2.96	1.41	1.42	1.46	1.75	1.82	--
Ammonia as N	0.88	2.92	2.80	2.67	1.26	1.39	1.34	1.30	0.874	2
Sulfate	49.4	46.0	16.4	8.93	8.1	7.7	10.5	11.9	10.5	250
Chloride	80	75.0	35	50	62.5	87.5	93.0	100	110	250
Total Dissolved Solids	248	251	125	120	1.74	2.31	268	262	286	--
Total Suspended Solids	BDL	5	11	1	BDL	BDL	BDL	1	12.0	--
Arsenic	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	0.025
Aluminum, Total	BDL	0.200	0.583	0.049	0.133	0.020	BDL	BDL	0.01	--
Iron, Total	0.013	0.093	0.252	0.056	0.064	0.017	0.005	0.016	BDL	0.3
Manganese, Total	0.104	0.080	0.060	0.072	0.083	0.098	0.107	0.116	0.121	0.3
Nickel, Total	0.012	0.003	0.001	BDL	0.003	0.005	0.003	BDL	0.002	0.1
Chromium, Total	BDL	BDL	0.001	BDL	0.001	BDL	BDL	BDL	BDL	0.05

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 : Analytes and groundwater cleanup criteria specified for termination of remedial system  
 : Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established



**TABLE 7  
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
ON-SITE MONITORING WELL DATA  
WELL NUMBER FTC-W-9A**

FTC-W-9A	DATE SAMPLED																				NYSDEC Class GA Groundwater Standards							
	6/10/99	9/19/00	3/27/01	6/18/01			10/7/03	12/23/03	3/23/04	6/14/04	9/27/04	12/13/04	3/30/05	6/20/05	9/26/05	12/19/05	3/20/06	6/14/06	9/18/06	12/14/06		4/2/07	6/19/07	9/17/07	12/19/07		9/4/08	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																												
Vinyl Chloride	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Benzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	NA	NA	NA	NA			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Acetone	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
2-Methylnaphthalene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
4-Isopropyltoluene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
m,p-Xylene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Dichlorodifluoromethane	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
sec-Butyl Benzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Hexachlorobutadiene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Methylene Chloride	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
tert-Butyl Benzene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
N-Butylbenzene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Diethylbenzene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
p-Ethyltoluene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
<b>Total VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>			<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.5</b>	<b>50</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																												
Acenaphthene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Di-n-Butyl Phthalate	BDL	BDL	BDL	BDL			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,3-Dichlorobenzene	NA	NA	NA	NA			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Nitrobenzene	NA	NA	NA	NA			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA			NA	NA	BDL	BDL	BDL	BDL	3.6	BDL	BDL	BDL	3.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA			NA	NA	BDL	BDL	BDL	2.7	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Diethyl Phthalate	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	3.4	BDL	BDL	BDL	3.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Assorted Semi-Vol. Org. Compounds	BDL	BDL	BDL	BDL			NA	NA	BDL	BDL	3.5	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
2-Methylphenol	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
3+4-Methylphenol	NA	NA	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1
Fluorene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Naphthalene	BDL	BDL	BDL	BDL			BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>			<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>3.5</b>	<b>2.7</b>	<b>7.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>7.0</b>	<b>2.0</b>	<b>11.3</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>--</b>
<b>INORGANIC PARAMETERS (mg/l)</b>																												
ph	6.28	NA	NA	6.02			NA	NA	NA	5.99	NA	NA	NA	5.87	NA	NA	NA	5.91	NA	NA	NA	6.02	NA					







**TABLE 11  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 ON-SITE MONITORING WELL DATA  
 WELL NUMBER FTC-W-23**

FTC-W-23	DATE SAMPLED										NYSDEC Class GA Groundwater Standards
	6/8/99	6/15/00	6/14/01	7/2/02	6/30/03	6/21/04	6/21/05	6/14/06	6/26/07	9/5/08	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>											
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	50
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	50
Benzene	BDL	<b>5.2</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Chloroform	NA	NA	NA	NA	NA	NA	<b>0.8</b>	BDL	BDL	BDL	7
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Tetrachloroethene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	<b>7.0</b>	<b>1.6</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>1.2</b>	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>0.3</b>	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>1.3</b>	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>4.2</b>	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	1
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	5
p-Isopropyltoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>0.5</b>	BDL	BDL	5
1,4-Dichlorobenzene	BDL	<b>17.8</b>	<b>3.1</b>	BDL	BDL	BDL	BDL	<b>1.1</b>	BDL	BDL	3
1,2-Dichlorobenzene	BDL	<b>6.4</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	5
Methylene Chloride	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	<b>4.6 B</b>	5
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	<b>46.1</b>	BDL	BDL	50
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
tert-Butyl Benzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	5
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Diethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	<b>9.8</b>	BDL	BDL	BDL	BDL	BDL	<b>6.5</b>	BDL	BDL	10
<b>Total VOCs</b>	0.0	46.2	4.7	0.0	0.0	0.0	0.0	<b>62.0</b>	0.0	4.6	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>											
Acenaphthene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	20
Anthracene	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	50
Di-n-Butyl Phthalate	BDL	BDL	BDL	BDL	BDL	BDL	<b>1.0</b>	BDL	BDL	BDL	50
1,2-Dichlorobenzene	BDL	<b>1.3</b>	BDL	BDL	<b>6.5</b>	BDL	NA	<b>1.2</b>	BDL	BDL	3
1,3-Dichlorobenzene	NA	NA	NA	BDL	<b>1.5</b>	BDL	BDL	BDL	BDL	BDL	3
Nitrobenzene	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.4
Phenanthrene	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	50
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	5
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	--
Diethyl Phthalate	NA	NA	NA	NA	NA	NA	BDL	NA	NA	BDL	50
Assorted Semi-Vol. Org. Compounds	BDL	BDL	BDL	NA	NA	BDL	NA	NA	NA	NA	--
1,4-Dichlorobenzene	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	3
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	50
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	1
3+4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	1
Fluorene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
<b>Total Semi-VOCs</b>	0.0	1.3	0.0	0.0	8.0	0.0	1.0	1.2	0.0	0.0	--
<b>INORGANIC PARAMETERS (mg/l)</b>											
ph	6.99	7.19	6.79	7.03	6.65	6.82	6.80	6.71	6.46	NA	--
Specific Conductance	832	1400	1130	577	914	947	850	660	553	NA	--
Alkalinity as Calcium Carbonate	182	402	292	126	240	248	192	136	101	NA	--
B.O.D.	BDL	<b>2.8</b>	2	BDL	2.4	BDL	BDL	BDL	BDL	BDL	--
Chemical Oxygen Demand	BDL	50.1	BDL	BDL	36	33.4	29.0	31.0	BDL	BDL	--
Hardness, Total	52.6	145	150	51.5	156	98.7	114.0	98.7	71.0	NA	--
Nitrate as N	4.07	3.81	4.30	<b>11</b>	0.71	1.14	2.35	1.93	0.322	NA	10
Total Phosphorus as P	BDL	BDL	BDL	BDL	BDL	0.18	BDL	BDL	BDL	BDL	--
Sodium, Total	<b>106</b>	<b>135.0</b>	<b>82.4</b>	<b>44.3</b>	<b>87.3</b>	<b>93.1</b>	<b>78.1</b>	<b>75.6</b>	<b>76.0</b>	<b>32.0</b>	20
Total Kjeldahl as N	16.9	49.3	28.5	19.3	13.4	25.8	21.2	16.6	2.54	NA	--
Ammonia as N	<b>16.9</b>	<b>41.90</b>	<b>10.90</b>	<b>18.90</b>	<b>13.90</b>	<b>24.70</b>	<b>12.30</b>	<b>16.80</b>	<b>2.09</b>	NA	2
Sulfate	24.9	30.3	25.5	32	42.1	17.2	14.1	22.4	33.8	NA	250
Chloride	100	155	153	35	123	110	100	115	70	NA	250
Total Dissolved Solids	384	636	538	266	484	441	360	343	394	NA	--
Total Suspended Solids	1	2	BDL	2	BDL	BDL	2	BDL	3.5	BDL	--
Arsenic	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	0.025
Aluminum, Total	BDL	0.020	BDL	0.135	0.017	0.182	0.002	0.006	0.035	BDL	--
Iron, Total	0.013	0.072	0.148	0.279	0.13	<b>0.443</b>	0.185	0.242	0.032	0.028	0.3
Manganese, Total	0.277	<b>2.23</b>	<b>5.73</b>	<b>2.76</b>	<b>10.90</b>	<b>4.14</b>	<b>7.21</b>	<b>5.93</b>	<b>2.69</b>	<b>0.57</b>	0.3
Nickel, Total	0.014	0.016	0.012	0.001	0.011	0.014	0.010	0.008	0.004	BDL	0.1
Chromium, Total	BDL	BDL	0.002	BDL	0.002	0.001	0.001	0.003	0.003	BDL	0.05

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 B: Detected in associated method blank  
 : Analytes and groundwater cleanup criteria specified for termination of remedial system  
 : Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established

**TABLE 12**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**ON-SITE MONITORING WELL DATA**  
**WELL NUMBER FTC-W-31**

FTC-W-31	DATE SAMPLED													NYSDEC Class GA Groundwater Standards
	6/11/99	6/15/00	6/21/01	7/2/02	6/27/03	6/21/04	6/21/05	6/14/06	9/25/06	6/27/07	9/5/08	3/25/10		
<b>VOLATILE ORGANICS COMPOUNDS</b>														
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	NA	NA	1		
1,2,4,5-Tetramethylbenzene	NA	NA	NA	NA	NA	NA	NA	17.0	BDL	Not Smpld 5th Qtr. Well	BDL	13.0	--	
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	50	
4-Isopropyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	--	
c-1,2-Dichloroethene	BDL	2.3	BDL	BDL	BDL	BDL	BDL	5.9	BDL	BDL	BDL	BDL	5	
Acetone	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	50	
Benzene	BDL	5.2	3.0	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	1.6	1	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.5	BDL	BDL	BDL	BDL	5	
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Tetrachloroethene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Chlorobenzene	BDL	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Chloroform	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	7	
Ethyl Benzene	112	113	37.4	BDL	BDL	BDL	BDL	123	BDL	BDL	BDL	BDL	5	
m,p-Xylene	415	323	96.5	BDL	BDL	BDL	BDL	117	BDL	BDL	BDL	BDL	5	
o-Xylene	194	149	16.4	BDL	BDL	BDL	BDL	104	BDL	BDL	BDL	2	5	
Isopropylbenzene	23.1	28.8	17.8	BDL	BDL	BDL	BDL	19.7	BDL	BDL	BDL	6.4	5	
n-Propylbenzene	65.7	77.1	50.6	BDL	BDL	BDL	BDL	62.7	BDL	BDL	BDL	7.4	5	
1,3,5-Trimethylbenzene	169	122	86.9	5.2	BDL	BDL	BDL	120	BDL	BDL	BDL	BDL	5	
1,2,4-Trimethylbenzene	548	594	331	3.9	1.2	BDL	BDL	167	BDL	BDL	BDL	BDL	5	
sec-Butyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5.5	BDL	BDL	BDL	BDL	5	
p-Isopropyltoluene	21.8	16.3	2.0	2.9	BDL	BDL	BDL	4.7	BDL	BDL	BDL	BDL	5	
1,4-Dichlorobenzene	BDL	4.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
Dichlorodifluoromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	NA	NA	NA	5	
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	0.5	
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	LA	5 B	3.2 B	5	
Naphthalene	106	26.1	23.3	BDL	BDL	BDL	BDL	178	BDL	BDL	BDL	5.4	50	
n-Butylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	--	
tert-Butyl Benzene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	1.6	5	
1,2,3-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
p-Diethylbenzene	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	4.2	--	
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	--	
Methyl t-Butylether (MTBE)	BDL	13.4	9.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	
<b>Total VOCs</b>	<b>1654.6</b>	<b>1476.4</b>	<b>674.2</b>	12.0	1.2	0.0	0.0	<b>912.8</b>	17.0	0.0	5.0	44.8	<b>50</b>	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>														
Acenaphthene	1.3	BDL	7.9	1.4	1.3	BDL	BDL	BDL	BDL	BDL	BDL	4.6 J	20	
Anthracene	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	50	
Di-n-Butyl Phthalate	BDL	1.4	BDL	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	50	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
1,3-Dichlorobenzene	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
Nitrobenzene	NA	NA	NA	BDL	BDL	BDL	BDL	12.4	BDL	BDL	BDL	BDL	0.4	
Phenanthrene	NA	NA	NA	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	50	
Bis(2-Ethylhexyl)Phthalate	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	5	
N-Nitrosodi-n-Propylamine	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	--	
Diethyl Phthalate	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	16	BDL	50	
Assorted Semi-Vol. Org. Compounds	BDL	BDL	14.0	NA	NA	BDL	NA	NA	NA	NA	NA	NA	--	
1,4-Dichlorobenzene	BDL	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
2,4-Dinitrotoluene	3.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
2-Methylnaphthalene	NA	NA	NA	NA	NA	NA	NA	NA	6.2	BDL	BDL	BDL	50	
2-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	1	
3+4-Methylphenol	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	1	
Fluorene	2.0	BDL	7.5	1.5	1.9	BDL	BDL	BDL	BDL	BDL	BDL	2.4	50	
Naphthalene	61.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.9 J	50	
<b>Total Semi-VOCs</b>	69	1.4	29.4	2.9	3.2	0.0	0.0	12.4	6.2	0.0	16.0	36.0	--	
<b>INORGANIC PARAMETERS</b>														
ph	6.48	6.56	6.36	6.5	6.39	6.32	6.28	6.34	NA	6.53	NA	6.57	--	
Specific Conductance	632	584	686	727	575	491	541	470	NA	658	NA	445	--	
Alkalinity as Calcium Carbonate	71	137	272	140	148	138	153	160	NA	368	NA	197	--	
B.O.D.	7	3.2	10.4	BDL	2.4	BDL	7.0	3.0	NA	BDL	NA	BDL	--	
Chemical Oxygen Demand	36	43.0	88	50.1	84	54.9	103.0	48.0	NA	27.4	NA	14.6	--	
Hardness, Total	50.8	72.4	147	110	115	117	127	140	NA	56.7	NA	119	--	
Nitrate as N	BDL*	BDL	0.12	0.16	BDL	0.6	1.32	1.55	NA	0.148	NA	0.84	10	
Total Phosphorus as P	0.05	0.10	0.09	0.1	0.05	0.05	0.06	BDL	NA	BDL	NA	BDL	--	
Sodium, Total	80.5	53.1	39.2	61.6	49.9	30.8	40.0	25.0	NA	91.9	21.9	13.1	20	
Total Kjeldahl as N	6.23	9.81	5.68	10.6	9.3	1.57	2.52	2.16	NA	10.90	NA	3.51	--	
Ammonia as N	6.24	8.84	4.23	10.4	8.96	1.15	2.10	1.74	NA	11.30	NA	1.17	2	
Sulfate	33.4	41.6	28.1	26.6	84	45.2	33.5	20.5	NA	19.7	NA	BDL	250	
Chloride	80	62.5	28	92.5	25	25	32.5	20.0	NA	80	NA	22	250	
Total Dissolved Solids	306	281	331	343	339	287	325	239	NA	404	NA	238	--	
Total Suspended Solids	40	59	96	68	66	39	39	36	NA	5	NA	40	--	
Arsenic	NA	NA	NA	NA	NA	BDL	0.043	0.036	NA	BDL	BDL	0.028	0.025	
Aluminum, Total	BDL	0.191	0.017	BDL	0.018	0.094	0.016	0.033	NA	0.039	0.090	0.006	--	
Iron, Total	24.3	29.5	72.0	42.3	42.4	31.9	20.2	30.5	NA	2.9	6.44	24.0	0.3	
Manganese, Total	2.31	1.60	3.89	2	3.07	1.05	0.806	1.320	NA	2.05	5.79	10.60	0.3	
Nickel, Total	0.006	0.004	0.002	0.006	0.011	0.005	0.020	0.012	NA	0.007	BDL	0.012	0.1	
Chromium, Total	0.006	BDL	0.001	0.001	0.002	0.019	0.002	0.003	NA	0.003	BDL	BDL	0.05	

Notes:  
Data obtained from NCDPW  
ug/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
J: Estimated value  
B: Detected in associated method blank  
: Analytes and groundwater cleanup criteria specified for termination of remedial system  
: Constituent exceeds NYSDEC Class GA Groundwater Standards  
--: Not established







**TABLE 15**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**OFF-SITE MONITORING WELL DATA**  
**WELL NUMBER BP-2A**

BP-2A	DATE SAMPLED										NYSDEC Class GA Groundwater Standards
	6/8/99	6/21/00	6/19/01	7/10/02	7/28/03	6/16/04	6/27/05	6/22/06	6/26/07		
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>											
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	LA	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	3.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Benzene	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5
2,2 Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2 Trichloroethane	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2 Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	5
Chloromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	--
<b>Total VOCs</b>	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>											
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
2,4-Dinitrotoluene	BDL	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
Fluorene	BDL	BDL	NA	BDL	NA	NA	NA	NA	NA	NA	50
Naphthalene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	50
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
<b>INORGANIC PARAMETERS (mg/l)</b>											
ph	6.32	6.22	6.57	6.25	6.3	6.33	6.3	6.34	6.15	6.15	--
Specific Conductance	471	525	370	363	303	303	374	438	322	322	--
Alkalinity as Calcium Carbonate	29	30.8	40	33	24	22	16	29	43	43	--
B.O.D.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Chemical Oxygen Demand	BDL	38.2	26	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Hardness, Total	30.9	50.3	56.3	64.6	29.2	BDL	60.1	47	65.1	65.1	--
Nitrate as N	1.97	2.27	4.46	2.54	0.23	2.25	2.75	4.73	0.473	0.473	10
Total Phosphorus as P	BDL	BDL	BDL	BDL	0.1	BDL	BDL	BDL	BDL	BDL	--
Sodium, Total	49.3	53.5	35.4	34	30.7	0.15	40.2	40.3	46.8	46.8	20
Total Kjeldahl as N	7.58	2.82	0.90	0.51	0.99	0.43	0.64	0.46	BDL	BDL	--
Ammonia as N	7.58	2.25	0.87	0.15	BDL	0.33	0.66	0.21	0.028	0.028	2
Sulfate	15.8	20.0	21.0	16.4	21	22.9	23.6	28	20.7	20.7	250
Chloride	90	110	55	68	55	55	68	85	73	73	250
Total Dissolved Solids	196	282	206	208	198	180	211	253	212	212	--
Total Suspended Solids	BDL	2.0	BDL	1.0	122	BDL	BDL	BDL	3.0	3.0	--
Aluminum, Total	BDL	0.013	BDL	0.016	0.232	BDL	0.003	0.001	0.005	0.005	--
Iron, Total	0.007	0.004	0.014	0.017	0.519	0.009	BDL	BDL	BDL	BDL	0.3
Manganese, Total	0.275	0.41	0.269	0.311	0.42	0.255	0.326	0.479	1.55	1.55	0.3
Nickel, Total	0.009	BDL	0.001	0.002	0.003	0.001	BDL	BDL	0.002	0.002	0.1
Chromium, Total	BDL	BDL	BDL	0.001	0.02	BDL	0.001	BDL	0.003	0.003	0.05

Notes:  
Data obtained from NCDPW  
ua/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
: Analytes and groundwater cleanup criteria specified for termination of remedial system  
: Constituent exceeds NYSDEC Class GA Groundwater Standards  
--: Not established

**TABLE 16  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER BP-2B**

BP-2B	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards			
	6/8/99	9/29/00	3/29/01	6/19/01	9/28/01	12/5/01	3/25/02	7/10/02	10/1/02	12/17/02	3/25/03	7/2/03	10/9/03		3/29/04	6/16/04	9/24/04	12/16/04	3/31/05	6/27/05	9/22/05	12/21/05	3/21/06	6/22/06	9/19/06	12/18/06	3/28/07	6/26/07		9/18/07	1/8/08	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																																
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	LA	LA	LA	5	
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Benzene	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	8.2	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2,2-Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	8.2	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																																
1,2-Dichlorobenzene	2.3	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA		NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	3	
2,4-Dinitrotoluene	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA		NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	5	
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	5	
Fluorene	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	
Naphthalene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	
<b>Total Semi-VOCs</b>	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	
<b>INORGANIC PARAMETERS (mg/l)</b>																																
ph	6.68	NA	NA	6.81	NA	NA	NA	6.54	NA	NA	NA	6.56	NA		NA	6.56	NA	NA	NA	6.71	NA	NA	NA	6.63	NA	NA	NA	6.37	NA	NA	--	
Specific Conductance	608	NA	NA	600	NA	NA	NA	562	NA	NA	NA	564	NA		NA	535	NA	NA	NA	497	NA	NA	NA	497	NA	NA	NA	466	NA	NA	--	
Alkalinity as Calcium Carbonate	68	NA	NA	49.0	NA	NA	NA	51	NA	NA	NA	53.0	NA		NA	65	NA	NA	NA	LA	NA	NA	NA	50	NA	NA	NA	78	NA	NA	--	
B.O.D.	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA		NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--	
Chemical Oxygen Demand	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA		NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--	
Hardness, Total	37	NA	NA	30.0	NA	NA	NA	32.2	NA	NA	NA	59.9	NA		NA	BDL	NA	NA	NA	72.5	NA	NA	NA	89.2	NA	NA	NA	88.2	NA	NA	--	
Nitrate as N	BDL	NA																														

**TABLE 17  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER BP-3A**

BP-3A	DATE SAMPLED															NYSDEC Class GA Groundwater Standards	
	11/00/90	4/14/03	4/21/04	2/24/05	4/14/05	7/21/05		2/2/06	4/13/06	7/27/06		1/18/07		7/12/07	1/9/08		3/2/11
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																	
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		LA	LA	<b>5.3 B</b>	5
t-1,2-Dichloroethene	NA	BDL	BDL	BDL	BDL	BDL	Not Part Of Routine Sampling Plan	BDL	BDL	BDL	Not Part Of Routine Sampling Plan	BDL	Not Part Of Routine Sampling Plan	BDL	BDL	BDL	5
c-1,2-Dichloroethene	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL		BDL	NA	NA		NA		NA	NA	BDL	0.6
Benzene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Chloroform	BDL	BDL	1.2	1.4	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	0.6		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Isopropylbenzene	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
n-Propylbenzene	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Dichlorodifluoromethane	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,1,2 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	1
1,2-Dichloroethane	NA	BDL	BDL	BDL	NA	NA		NA	BDL	BDL		BDL		BDL	BDL	BDL	0.6
1,2-Dibromoethane	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	50
1,1,1-Trichloromethane	NA	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	NA	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
Chloromethane	NA	NA	NA	NA	BDL	BDL		BDL	BDL	BDL		BDL		BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA		NA	NA	NA		BDL		BDL	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA		NA	NA	NA		NA		BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA		NA	NA	NA		NA		BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	0.0	1.2	1.4	0.0	0.6		0.0	0.0	0.0		0.0		0.0	0.0	5.3	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																	
1,2-Dichlorobenzene	BDL	NA	NA	NA	NA	NA		NA	NA	NA		NA		BDL	NA	BDL	3
2,4-Dinitrotoluene	BDL	NA	NA	NA	NA	NA		NA	NA	NA		NA		BDL	NA	NA	5
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	BDL	BDL		NA	NA	BDL		NA		BDL	NA	NA	5
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0		0.0		0.0	0.0	0.0	--
<b>INORGANIC PARAMETERS (mg/l)</b>																	
ph	NA	NA	NA	NA	NA	NA		NA	NA	5.59		NA		NA	NA	NA	--
Specific Conductance	NA	NA	NA	NA	NA	NA		NA	NA	61		NA		41.1	NA	NA	--
Alkalinity as Calcium Carbonate	NA	NA	NA	NA	NA	NA		NA	NA	5		NA		NA	NA	NA	--
B.O.D.	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		NA	NA	NA	--
Chemical Oxygen Demand	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		BDL	NA	NA	--
Hardness, Total	NA	NA	NA	NA	NA	NA		NA	NA	11.6		NA		NA	NA	NA	--
Nitrate as N	NA	NA	NA	NA	NA	NA		NA	NA	0.21		NA		BDL	NA	NA	10
Total Phosphorus as P	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		2.05	NA	NA	--
Sodium, Total	NA	NA	NA	NA	NA	NA		NA	NA	4.82		NA		NA	NA	NA	20
Total Kjeldahl as N	NA	NA	NA	NA	NA	NA		NA	NA	0.30		NA		0.508	NA	NA	--
Ammonia as N	NA	NA	NA	NA	NA	NA		NA	NA	0.18		NA		BDL	NA	NA	2
Sulfate	NA	NA	NA	NA	NA	NA		NA	NA	11.0		NA		7.51	NA	NA	250
Chloride	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		NA	NA	NA	250
Total Dissolved Solids	NA	NA	NA	NA	NA	NA		NA	NA	35		NA		56.0	NA	NA	--
Total Suspended Solids	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		NA	NA	NA	--
Aluminum, Total	NA	NA	NA	NA	NA	NA		NA	NA	0.008		NA		NA	NA	NA	--
Iron, Total	NA	NA	NA	NA	NA	NA		NA	NA	0.017		NA		NA	NA	NA	0.3
Manganese, Total	NA	NA	NA	NA	NA	NA		NA	NA	0.006		NA		NA	NA	NA	0.3
Nickel, Total	NA	NA	NA	NA	NA	NA		NA	NA	BDL		NA		NA	NA	NA	0.1
Chromium, Total	NA	NA	NA	NA	NA	NA		NA	NA	0.002		NA		NA	NA	NA	0.05

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 [shaded box]: Analytes and groundwater cleanup criteria specified for termination of remedial system  
 [bold box]: Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established













**TABLE 23  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER BP-9C**

BP-9C	DATE SAMPLED																										NYSDEC Class GA Groundwater Standards		
	7/27/99	9/27/00	3/28/01	6/15/01	10/4/01	12/19/01	3/25/02	6/27/02		3/28/03		10/15/03		6/24/04	9/23/04	12/14/04	4/5/05	6/22/05	9/21/05	12/27/05	3/23/06	6/19/06	9/25/06	1/9/07	3/29/07	6/27/08		9/24/07	12/11/07
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																													
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	NA	NA	NA	NA	NA	NA	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	LA	LA	BDL	BDL
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		<b>6.1</b>		BDL		BDL	BDL	BDL	<b>3.1</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2,2 Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2 Trichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		BDL		BDL		BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL
<b>Total VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>		<b>6.1</b>		<b>0.0</b>		<b>0.0</b>	<b>0.0</b>	<b>3.1</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																													
1,2-Dichlorobenzene	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA	NA	
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA		NA		NA		NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA	NA	
Fluorene	NA	NA	NA	NA	NA	NA	NA	BDL		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Naphthalene	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>		<b>0.0</b>		<b>0.0</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>INORGANIC PARAMETERS (ug/l)</b>																													
ph	NA	NA	NA	7.19	NA	NA	NA	6.27		NA		NA		6.13	NA	NA	NA	6.29	NA	NA	NA	5.77	NA	NA	NA	6.18	NA	NA	
Specific Conductance	NA	NA	NA	111.0	NA	NA	NA	76		NA		NA		66	NA	NA	NA	50.7	NA	NA	NA	60	NA	NA	NA	48	NA	NA	
Alkalinity as Calcium Carbonate	NA	NA	NA	40.0	NA	NA	NA	18		NA		NA		11	NA	NA	NA	8.5	NA	NA	NA	8	NA	NA	NA	15	NA	NA	
B.O.D.	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	3.0	NA	NA	NA	BDL	NA	NA	BDL	NA	NA		
Chemical Oxygen Demand	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA		
Hardness, Total	NA	NA	NA	38.4	NA	NA	NA	22.8		NA		NA		17.9	NA	NA	NA	16.3	NA	NA	NA	14.5	NA	NA	NA	14.3	NA	NA	
Nitrate as N	NA	NA	NA	1.52	NA	NA	NA	1.43		NA		NA		1.44	NA	NA	NA	1.47	NA	NA	NA	1.46	NA	NA	NA	0.327	NA	NA	
Total Phosphorus as P	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA		
Sodium, Total	NA	NA	NA	3.3	NA	NA	NA	3.88		NA		NA		4.15	NA	NA	NA	4.09	NA	NA	NA	3.94	NA	NA	NA	6.18	NA	NA	
Total Kjeldahl as N	NA	NA	NA	BDL	NA	NA	NA	BDL		NA		NA		BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA		
Ammonia as N	NA	NA	NA	BDL	NA	NA	NA	BD																					





**TABLE 26  
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
OFF-SITE MONITORING WELL DATA  
WELL NUMBER BP-12A**

BP-12A	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards		
	6/4/99	9/27/00	1/17/01	3/28/01	6/15/01	10/5/01	12/6/01	3/26/02	6/25/02	10/3/02	12/17/02	3/26/03	6/14/03	3/26/04	6/16/04	9/22/04	12/14/04	4/5/05	6/17/05	9/20/05	12/22/05	3/23/06	6/19/06	9/21/06	1/9/07	3/28/07	6/21/07	9/19/07		12/11/07	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																															
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	LA	LA	LA	BDL	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2,2-Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																															
1,2-Dichlorobenzene	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	3	
2,4-Dinitrotoluene	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	5	
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	5	
Fluorene	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	50	
Naphthalene	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	50	
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	
<b>INORGANIC PARAMETERS (mg/l)</b>																															
ph	5.2	NA	NA	NA	5.1	NA	NA	NA	4.79	NA	NA	NA	NA	NA	5.02	NA	NA	NA	5.3	NA	NA	NA	5.08	NA	NA	NA	5.50	NA	NA	--	
Specific Conductance	89	NA	NA	NA	67.4	NA	NA	NA	505	NA	NA	NA	NA	NA	74	NA	NA	NA	93.3	NA	NA	NA	113	NA	NA	NA	77.3	NA	NA	--	
Alkalinity as Calcium Carbonate	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	12	NA	NA	--	
B.O.D.	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--	
Chemical Oxygen Demand	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	--	
Hardness, Total	15.8	NA	NA	NA	8.8	NA	NA	NA	37.8	NA	NA	NA	NA	NA	11	NA	NA	NA	18.9	NA	NA	NA	26.0	NA	NA	NA	23.4	NA	NA	--	
Nitrate as N	2.77	NA	NA	NA	1.8	NA	NA	NA	3.22	NA	NA	NA	NA	NA	2.75	NA	NA	NA	0.11	NA	NA	NA	10.90	NA	NA	NA	3.34	NA	NA	10	
Total Phosphorus as P	BDL	NA	NA	NA	BDL</																										



**TABLE 28  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER BP-12C**

BP-12C	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards					
	6/15/00	9/28/00	1/17/01	3/28/01	6/15/01	10/5/01	12/6/01	3/26/02	6/25/02	10/3/02	12/10/02	3/26/03	7/1/03	10/10/03	1/13/04	3/26/04	6/14/04	9/22/04	12/14/04	3/30/05	6/17/05	9/20/05	12/21/05	3/22/06	6/16/06	9/21/06	1/9/07	3/27/07		6/21/07	9/18/07	12/11/07		
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																																		
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	LA	LA	BDL	5	
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
2,2-Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2 Trichloroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																																		
1,2-Dichlorobenzene	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	3
2,4-Dinitrotoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	5
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Fluorene	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Naphthalene	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	
<b>INORGANIC PARAMETERS (mg/l)</b>																																		
ph	4.93	NA	NA	NA	5.25	NA	NA	NA	4.99	NA	NA	NA	4.83	NA	NA	NA	4.96	NA	NA	NA	5.23	NA	NA	NA	4.95	NA								



**TABLE 30**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**OFF-SITE MONITORING WELL DATA**  
**WELL NUMBER BP-13C**

BP-13C	DATE SAMPLED																												NYSDEC Class GA Groundwater Standards						
	6/19/00	9/26/00	1/18/01	4/5/01	6/18/01	10/4/01	12/6/01	3/28/02	6/27/02	10/4/02	12/19/02	3/27/03	7/2/03	10/14/03	1/12/04	3/25/04	6/17/04	9/29/04	12/16/04	4/6/05	6/23/05	9/23/05	12/27/05	3/24/06	6/20/06	11/2/06	12/27/06	4/3/07		6/22/07	9/20/07	1/7/08	9/8/08		
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																																			
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Methylene Chloride	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
2,2-Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	50	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																																			
1,2-Dichlorobenzene	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	3	
2,4-Dinitrotoluene	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5	
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5	
Fluorene	BDL	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	
Naphthalene	BDL	NA	NA	NA	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	
<b>INORGANIC PARAMETERS (ug/l)</b>																																			
ph	5.64	NA	NA	NA	4.99	NA	NA	NA	4.52	NA	NA	NA	4.95	NA	NA	NA	4.23	NA	NA	NA	5.03	NA	NA	NA	4.55	NA	NA	NA	5.31	NA	NA	NA	--		
Specific Conductance	30.0	NA	NA	NA	27.0	NA	NA	NA	27	NA	NA	NA	24.2	NA	NA																				





**TABLE 32  
NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
OFF-SITE MONITORING WELL DATA  
WELL NUMBER BP-14C**

BP-14C	DATE SAMPLED																									NYSDEC Class GA Groundwater Standards			
	4/11/02	8/8/02	10/3/02	12/16/02	3/25/03	7/1/03	10/9/03	1/14/04	3/24/04	6/22/04	9/24/04	12/17/04	4/6/05	6/24/05	9/21/05	12/21/05	3/22/06	6/23/06	9/22/06	1/10/07	3/29/07	6/29/07	9/21/07	1/8/08	3/7/08		10/3/08	3/4/11	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																													
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2	
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	LA	LA	LA	NA	LA	8.1 B	4.9 B	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
c-1,2-Dichloroethene	BDL	BDL	BDL	1.6	2.6	3.4	2.7	1.6	3.8	4.7	2.9	5.9	3.9	3.1	2.9	BDL	4.3	2.3	6.6	7.4	4.8	8.2	9.4	NA	4.8	9.4	1.1	5	
1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--	
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7	
Tetrachloroethene	BDL	BDL	4.6	2.6	BDL	BDL	2.6	BDL	BDL	BDL	BDL	5.9	3.4	3.5	1.8	BDL	5.2	2.2	2.8	4.8	2.4	3.6	5.4	NA	2.4	6.4	3	5	
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
n-Propylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
2,2 Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	8.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Trichlorofluoromethane	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0	0.8	BDL	1.3	BDL	1.0	BDL	BDL	BDL	BDL	BDL	BDL	1.3	BDL	9.7	BDL	BDL	5
1,1,2 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1	
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6	
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006	
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3	
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.66 J	5	
1,3,5-Trimethylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50	
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--	
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10	
Carbon Tetrachloride	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
Chloromethane	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5	
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--	
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	5	
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--	
<b>Total VOCs</b>	0.0	0.0	4.6	4.2	2.6	12.3	5.3	1.6	3.8	4.7	2.9	12.8	8.1	6.6	6.8	0.0	11.4	4.5	9.4	12.2	7.2	14.2	18.9	0	16.9	24.6	9.0	50	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																													
1,2-Dichlorobenzene	NA	BDL	NA	NA	BDL	BDL	NA	BDL	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	3	
2,4-Dinitrotoluene	NA	BDL	NA	NA	BDL	NA	NA	BDL	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5	
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.9	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5	
Fluorene	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50		
Naphthalene	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	50		
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	
<b>INORGANIC PARAMETERS (mg/l)</b>																													
ph	NA	5.05	NA	NA	NA	5.01	NA	NA	NA	4.94	NA	NA	NA	5.64	NA	NA	NA	5.11	NA	NA	NA	5.15	NA	NA	NA	NA	6.29	--	
Specific Conductance	NA	50.0	NA	NA	NA	44	NA	NA	NA	60	NA	NA	NA	63	NA	NA	NA	64	NA	NA	NA	53.5	NA	NA	NA	NA	91.2	--	
Alkalinity as Calcium Carbonate	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	5	NA	NA	NA	NA	6.06	--	
B.O.D.	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	4.0	NA	NA	NA	BDL	NA	NA	NA	NA	NA	--	
Chemical Oxygen Demand	NA	7.7	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	--	
Hardness, Total	NA	BDL	NA	NA	NA	19.2	NA	NA	NA	11.1	NA	NA	NA	11.6	NA	NA	NA	10.9	NA	NA	NA	11.4	NA	NA	NA	NA	19.7	--	
Nitrate as N	NA	2.34	NA	NA	NA	2.55	NA	NA	NA	2.59	NA	NA	NA	2.72	NA	NA	NA	2.78	NA	NA	NA	0.572	NA	NA	NA	NA	2.6	10	
Total Phosphorus as P	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	--	
Sodium, Total	NA	4.62	NA	NA	NA	5.43	NA	NA	NA	5.5	NA	NA	NA	5.7	NA	NA	NA	5.56	NA	NA	NA	7.86	NA	NA	NA	4.37	3.53	20	
Total Kjeldahl as N	NA	0.17	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	0.13	NA	NA	NA	BDL	NA	NA	NA	NA	2.42</		

TABLE 33  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER BP-15B

BP-15B	DATE SAMPLED																	NYSDEC Class GA Groundwater Standards
	10/28/05	12/23/05	3/30/06	6/26/06	9/21/06	12/21/06	4/6/07	6/18/07	9/24/07	12/17/07	3/11/08	9/29/08	3/10/09	9/4/09	3/18/10	8/31/10	3/7/11	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>																		
Vinyl Chloride	8.8	15.9	14.9	10.2	20.0	17.0	19.0	46.0	22.0	29.0	21.0	27.0	31.0	43.0	42.0	47.0	20	
1,1-Dichloroethene	11.4	14.1	10.1	6.4	16.0	9.9	8.2	7.9	6.7	9.7	7.0	8.3	4.9	4.8	4.7	3.6	1.1	
1,1-Dichloroethane	28.4	38.0	31.3	19.9	52.0	35.0	2.8	35.0	31.0	36.0	31.0	31.0	27.0	36.0	31.0	32.0	14	
Methylene Chloride	5.0	12.5	8.6	5.7	BDL	NA	LA	LA	BDL	LA	9.7 B	29.0 B	13.0 B	13.0 B	6.9 B	18.0 B	7.2 B	
t-1,2-Dichloroethene	0.7	BDL	1.5	1.6	BDL	1.8	BDL	BDL	1.3	1.4	1.3	BDL	1.2	1.7	1.8	1.4	0.67 J	
c-1,2-Dichloroethene	40.7	75.8	61.1	33.1	97.0	BDL	76.0	110.0	100.0	92.0	83.0	96.0	100.0	150.0	150.0	180.0	71	
1,2-Dichloroethane	1.6	2.1	NA	NA	NA	NA	BDL	BDL	1.9	BDL	BDL	BDL	NA	NA	NA	BDL	0.6	
Benzene	1.7	3.4	4.5	BDL	4.8	5.1	4.8	7.1	6.2	6.5	6.1	6.0	6.4	8.8	8.2	8.9	3.7	
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Chloroform	0.7	0.5	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.0	0.81 J	BDL	BDL	
Tetrachloroethene	7.5	17.4	28.2	24.3	34.0	39.0	40.0	39.0	33.0	50.0	40.0	40.0	43.0	30.0	35.0	30.0	11	
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
o-Xylene	0.3	0.7	BDL	BDL	1.4	BDL	BDL	1.8	2.3	2.1	2.3	BDL	3.0	3.8	5.2	5.2	3.7	
Isopropylbenzene	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.59	0.7	1.7	BDL	0.56 J	
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Dichlorodifluoromethane	10.0	13.7	13.8	BDL	25.0	BDL	23.0	76.0	19.0	25.0	BDL	BDL	33.0	BDL	BDL	39.0	15	
Trichlorofluoromethane	3.2	BDL	3.3	2.4	BDL	3.3	3.0	BDL	BDL	BDL	2.8	BDL	2.4	2.6	4.4	2.2	1.1	
1,1,1-Trichloroethane	22.1	22.6	21.4	7.9	18.0	22.0	16.0	BDL	17.0	22.0	17.0	14.0	12.0	9.0	8.4	6.7	1.9	
1,1,2-Trichloroethane	BDL	BDL	BDL	10.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,2-Dichloroethane	NA	NA	2.0	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	1.6	2.5	2.2	1.1	0.86 J	
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Trichloroethene	10.5	16.4	16.6	19.6	21.0	17.0	14.0	17.0	16.0	20.0	16.0	16.0	14.0	13.0	14.0	14.0	5.5	
1,3,5-Trimethylbenzene	BDL	BDL	4.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,2,4-Trimethylbenzene	BDL	BDL	4.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Carbon Tetrachloride	BDL	BDL	3.5	BDL	BDL	97.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
Chloromethane	1.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
p-Ethyltoluene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	3.1	3.8	3.2	4.2	3.3	BDL	BDL	BDL	4.6	2.7	1.6	
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	7.4	9.1	7.9	15.0	BDL	BDL	BDL	BDL	BDL	7.4	2.6	
<b>Total VOCs</b>	<b>154.4</b>	<b>233.7</b>	<b>230.3</b>	<b>142.0</b>	<b>289.2</b>	<b>248.7</b>	<b>217.3</b>	<b>352.7</b>	<b>267.5</b>	<b>312.9</b>	<b>240.5</b>	<b>267.3</b>	<b>293.1</b>	<b>319.9</b>	<b>320.9</b>	<b>399.2</b>	<b>161.5</b>	
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>																		
1,2-Dichlorobenzene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	BDL	3	
2,4-Dinitrotoluene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Bis(2-Ethylhexyl) Phthalate	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	NA	NA	NA	NA	
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>INORGANIC PARAMETERS (mg/l)</b>																		
ph	4.74	NA	NA	4.96	NA	NA	NA	4.95	NA	NA	NA	NA	NA	5.29	6.18	4.94	5.44	
Specific Conductance	192	NA	NA	216	NA	NA	NA	205	NA	NA	NA	NA	NA	306	340	358	401	
Alkalinity as Calcium Carbonate	7	NA	NA	5	NA	NA	NA	17	NA	NA	NA	NA	NA	10	8	7.070	9.09	
B.O.D.	3.4	NA	NA	2.6	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	5.8	
Chemical Oxygen Demand	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	
Hardness, Total	9.4	NA	NA	40.2	NA	NA	NA	51.7	NA	NA	NA	NA	BDL	62	63	71.6	--	
Nitrate as N	0.79	NA	NA	0.87	NA	NA	NA	0.964	NA	NA	NA	NA	0.83	0.96	0.817	0.6	10	
Total Phosphorus as P	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	
Sodium, Total	4.76	NA	NA	18.1	NA	NA	NA	25.6	NA	NA	NA	20.40	NA	8.74	12.50	23	16.1	
Total Kjeldahl as N	0.15	NA	NA	0.23	NA	NA	NA	BDL	NA	NA	NA	NA	0.20	0.22	0.636	1.79	--	
Ammonia as N	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	2	
Sulfate	BDL	NA	NA	5.9	NA	NA	NA	49.2	NA	NA	NA	NA	3.86	2.99	BDL	BDL	250	
Chloride	45.0	NA	NA	53.0	NA	NA	NA	70.0	NA	NA	NA	NA	88	93	95	105	250	
Total Dissolved Solids	90	NA	NA	120	NA	NA	NA	144	NA	NA	NA	NA	186	216	265	266	--	
Total Suspended Solids	BDL	NA	NA	BDL	NA	NA	NA	1	NA	NA	NA	NA	1.00	BDL	BDL	BDL	--	
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025	
Aluminum, Total	0.047	NA	NA	0.026	NA	NA	NA	0.022	NA	NA	NA	0.023	NA	0.404	0.134	0.025	0.03	
Iron, Total	0.088	NA	NA	0.205	NA	NA	NA	0.017	NA	NA	NA	0.013	NA	0.107	0.301	0.022	0.03	
Manganese, Total	0.024	NA	NA	0.014	NA	NA	NA	0.016	NA	NA	NA	0.019	NA	0.025	0.028	0.027	0.03	
Nickel, Total	0.007	NA	NA	BDL	NA	NA	NA	0.004	NA	NA	NA	BDL	NA	0.013	0.008	0.006	0.01 J	
Chromium, Total	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	NA	BDL	0.009	BDL	BDL	

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 J: Estimated Value  
 B: Detected in associated method blank  
 : Analytes and groundwater cleanup criteria specified for termination of remedial system  
 : Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established

**TABLE 34**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**OFF-SITE MONITORING WELL DATA**  
**WELL NUMBER BP-15C**

BP-15C	DATE SAMPLED													NYSDEC Class GA Groundwater Standards
	10/28/05	12/23/05	3/30/06	6/26/06	9/21/06	12/21/06	4/11/07	6/18/07	9/24/07	12/12/07		9/30/08	3/24/11	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>														
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	NA	LA	LA	BDL	BDL	BDL	4.6 B	6.8 BC	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.4	5
1,2-Dichloroethane	BDL	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.76 JC	5
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	NA	NA	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	NA	BDL	0.6
1,2-Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	NA	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	9.0	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>														
1,2-Dichlorobenzene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	3
2,4-Dinitrotoluene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5
Bis(2-Ethylhexyl) Phthalate	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	NA	5
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
<b>INORGANIC PARAMETERS (mg/l)</b>														
ph	4.69	NA	NA	4.91	NA	NA	NA	5.55	NA	NA	NA	NA	5.21 H	--
Specific Conductance	52	NA	NA	54	NA	NA	NA	40.1	NA	NA	NA	NA	95.1	--
Alkalinity as Calcium Carbonate	BDL	NA	NA	BDL	NA	NA	NA	32.0	NA	NA	NA	NA	8.08	--
B.O.D.	BDL	NA	NA	4.4	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	--
Chemical Oxygen Demand	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	--
Hardness, Total	36.9	NA	NA	9.3	NA	NA	NA	7.98	NA	NA	NA	NA	15.8	--
Nitrate as N	0.7	NA	NA	0.87	NA	NA	NA	0.861	NA	NA	NA	NA	0.633	10
Total Phosphorus as P	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	5.68	--
Sodium, Total	17.4	NA	NA	4.78	NA	NA	NA	7.10	NA	NA	NA	5.51	5.47	20
Total Kjeldahl as N	BDL	NA	NA	0.11	NA	NA	NA	BDL	NA	NA	NA	NA	0.676	--
Ammonia as N	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	NA	BDL	2
Sulfate	BDL	NA	NA	5.7	NA	NA	NA	4.17	NA	NA	NA	NA	BDL	250
Chloride	5	NA	NA	5.0	NA	NA	NA	15.0	NA	NA	NA	NA	20.5	250
Total Dissolved Solids	37	NA	NA	36	NA	NA	NA	20	NA	NA	NA	NA	45	--
Total Suspended Solids	BDL	NA	NA	BDL	NA	NA	NA	0.5	NA	NA	NA	NA	BDL	--
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	BDL	0.025
Aluminum, Total	0.037	NA	NA	0.038	NA	NA	NA	0.027	NA	NA	NA	0.033	0.053	--
Iron, Total	0.026	NA	NA	0.035	NA	NA	NA	0.009	NA	NA	NA	0.017	0.036	0.3
Manganese, Total	0.005	NA	NA	0.003	NA	NA	NA	0.002	NA	NA	NA	BDL	0.005 J	0.3
Nickel, Total	0.002	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	0.005 J	0.1
Chromium, Total	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	BDL	BDL	0.05

Notes:  
Data obtained from NCDPW  
ug/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
B: Detected in associated method blank  
C: Calibration % RSD/% D exceeded for non-CCC analytes  
H: Holding times for preparation or analysis exceeded  
: Analytes and groundwater cleanup criteria specified for termination of remedial system  
: Constituent exceeds NYSDEC Class GA Groundwater Standards  
--: Not established

**TABLE 35  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER U-6A**

U-6A										NYSDEC Class GA Groundwater Standards	
VOLATILE ORGANICS COMPOUNDS (ug/l)		6/8/99	6/13/00	6/18/01	7/2/02	7/28/03		6/22/05	6/22/06	6/27/07	
Vinyl Chloride		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	2
1,1-Dichloroethene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
1,1-Dichloroethane		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Methylene Chloride		NA	NA	NA	BDL	BDL		BDL	BDL	LA	5
t-1,2-Dichloroethene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
c-1,2-Dichloroethene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
1,2-Dichloroethene		NA	NA	NA	BDL	BDL	Equipment Failure No Sample	BDL	BDL	BDL	--
Benzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	1
Toluene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Chloroform		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	7
Tetrachloroethene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Chlorobenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Ethyl Benzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
m,p-Xylene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
o-Xylene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Isopropylbenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
n-Propylbenzene		NA	NA	NA	NA	BDL		BDL	BDL	BDL	5
2,2 Dichloropropane & cis-1,2-Dichloroethene		BDL	BDL	BDL	BDL	NA		NA	NA	NA	5
Dichlorodifluoromethane		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Trichlorofluoromethane		NA	NA	NA	NA	BDL		BDL	BDL	BDL	5
1,1,1 Trichloroethane		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
1,1,2 Trichloroethane		NA	NA	NA	BDL	BDL		BDL	BDL	BDL	1
1,2-Dichloroethane		BDL	BDL	BDL	BDL	BDL		NA	BDL	NA	0.6
1,2 Dibromoethane		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	3
1,2-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	3
Trichloroethene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
1,3,5-Trimethylbenzene		NA	NA	NA	NA	BDL		BDL	BDL	BDL	5
1,2,4-Trimethylbenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	5
Naphthalene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	50
1,1,1-Trichloromethane		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	10
Carbon Tetrachloride		NA	NA	NA	NA	NA		BDL	BDL	BDL	5
Chloromethane		NA	NA	NA	NA	NA		BDL	BDL	BDL	5
p-Ethyltoluene		NA	NA	NA	NA	NA		NA	NA	BDL	--
p-Ethyltoluene		NA	NA	NA	NA	NA		NA	NA	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	NA	NA		NA	NA	BDL	5
<b>Total VOCs</b>		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	50
SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)											
1,2-Dichlorobenzene		BDL	BDL	BDL	BDL	BDL		BDL	BDL	BDL	3
2,4-Dinitrotoluene		BDL	BDL	NA	BDL	BDL		BDL	BDL	BDL	5
Bis(2-Ethylhexyl) Phthalate		NA	NA	NA	NA	NA		BDL	BDL	BDL	5
Fluorene		BDL	BDL	NA	BDL	NA		NA	NA	NA	50
Naphthalene		BDL	BDL	BDL	BDL	NA		NA	NA	NA	50
<b>Total Semi-VOCs</b>		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	--
INORGANIC PARAMETERS (mg/l)											
ph		5.58	6.80	5.82	6.49	6.49		6.12	6.39	6.12	--
Specific Conductance		450	451	843	449	449		623	415	422	--
Alkalinity as Calcium Carbonate		10	49.8	14	17	17.0		110	33	46	--
B.O.D.		BDL	BDL	BDL	3.8	3.8		5.0	BDL	3.4	--
Chemical Oxygen Demand		BDL	BDL	BDL	BDL	BDL		38.0	BDL	BDL	--
Hardness, Total		64.3	28.0	38.4	48.5	48.5		72.6	58	38.3	--
Nitrate as N		2.72	BDL	3.57	3.12	3.12		BDL	1.06	0.252	10
Total Phosphorus as P		BDL	BDL	BDL	0.12	0.12		BDL	BDL	BDL	--
Sodium, Total		NA	65.1	127	59.1	59.1		69.2	53.2	43.2	20
Total Kjeldahl as N		NA	BDL	0.11	1.61	1.61		0.86	0.57	0.169	--
Ammonia as N		NA	BDL	BDL	BDL	BDL		0.66	0.39	0.461	2
Sulfate		5.41	63.7	34.7	17.4	17.4		BDL	13.7	5.3	250
Chloride		120	55.0	205	100	100		135	93	100	250
Total Dissolved Solids		242	255	481	276	276		304	217	244	--
Total Suspended Solids		14.5	1.0	21.0	124	124		98.0	133	1.29	--
Aluminum, Total		BDL	BDL	0.191	0.191	0.191		0.181	1.34	0.42	--
Iron, Total		0.906	0.027	1.33	7.14	7.14		66.6	7.500	46.70	0.3
Manganese, Total		0.060	0.002	0.124	0.319	0.319		0.687	0.476	0.482	0.3
Nickel, Total		0.017	0.001	0.007	0.009	0.009		0.010	0.009	0.015	0.1
Chromium, Total		0.002	0.003	0.001	0.006	0.006		0.009	0.003	0.004	0.05

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 [shaded box]: Analytes and groundwater cleanup criteria specified for termination of remedial system  
 [bold box]: Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established

**TABLE 36**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**OFF-SITE MONITORING WELL DATA**  
**WELL NUMBER OBV-1B**

OBV-1B	DATE SAMPLED											NYSDEC Class GA Groundwater Standards
	9/19/05	12/22/05	3/29/06	6/21/06	9/26/06	12/29/06	4/5/07	6/25/07	9/25/07	12/13/07	9/30/08	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>												
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	1.0	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1 Trichloroethane	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,2 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,3,5-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	50
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>												
1,2-Dichlorobenzene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	3
2,4-Dinitrotoluene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	5
Bis(2-Ethylhexyl) Phthalate	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	5
<b>Total Semi-VOCs</b>	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--
<b>INORGANIC PARAMETERS (mg/l)</b>												
ph	5.17	NA	NA	4.99	NA	NA	NA	5.32	NA	NA	NA	--
Specific Conductance	152	NA	NA	162	NA	NA	NA	133	NA	NA	NA	--
Alkalinity as Calcium Carbonate	7	NA	NA	BDL	NA	NA	NA	10	NA	NA	NA	--
B.O.D.	10	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	--
Chemical Oxygen Demand	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	--
Hardness, Total	35.7	NA	NA	38.4	NA	NA	NA	40.3	NA	NA	NA	--
Nitrate as N	2.31	NA	NA	3.30	NA	NA	NA	BDL	NA	NA	NA	10
Total Phosphorus as P	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	--
Sodium, Total	10.9	NA	NA	11.6	NA	NA	NA	14.3	NA	NA	6.44	20
Total Kjeldahl as N	BDL	NA	NA	0.21	NA	NA	NA	BDL	NA	NA	NA	--
Ammonia as N	BDL	NA	NA	BDL	NA	NA	NA	0.066	NA	NA	NA	2
Sulfate	24.3	NA	NA	18.3	NA	NA	NA	21.8	NA	NA	NA	250
Chloride	10	NA	NA	23.0	NA	NA	NA	30.0	NA	NA	NA	250
Total Dissolved Solids	109	NA	NA	102	NA	NA	NA	90	NA	NA	NA	--
Total Suspended Solids	2	NA	NA	1.0	NA	NA	NA	1.5	NA	NA	NA	--
Aluminum, Total	0.17	NA	NA	0.042	NA	NA	NA	0.045	NA	NA	0.049	--
Iron, Total	0.388	NA	NA	0.492	NA	NA	NA	0.059	NA	NA	0.058	0.3
Manganese, Total	0.073	NA	NA	0.062	NA	NA	NA	0.043	NA	NA	0.028	0.3
Nickel, Total	0.005	NA	NA	0.001	NA	NA	NA	0.001	NA	NA	BDL	0.1
Chromium, Total	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	BDL	0.05

**Notes:**

Data obtained from NCDPW  
ug/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
B: Detected in associated method blank

█: Analytes and groundwater cleanup criteria specified for termination of remedial system

█: Constituent exceeds NYSDEC Class GA Groundwater Standards

--: Not established

**TABLE 37**  
**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS**  
**FIREMAN'S TRAINING CENTER**  
**OLD BETHPAGE, NEW YORK**  
**OFF-SITE MONITORING WELL DATA**  
**WELL NUMBER OBV-1C**

OBV-1C	DATE SAMPLED											NYSDEC Class GA Groundwater Standards
	9/19/05	12/22/05	3/29/06	6/21/06	9/26/06	12/29/06	4/5/07	6/25/07	9/25/07	12/13/07	9/11/08	
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>												
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	3.4	4.6	2.2	1.9	BDL	6.5	BDL	1.9	1.9	2.4	1.4	5
1,1-Dichloroethane	6.9	5.7	5.8	5.4	6.4	14.0	BDL	6.0	4.7	6.6	4.7	5
Methylene Chloride	BDL	BDL	BDL	BDL	BDL	BDL	LA	BDL	BDL	BDL	4.5 B	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethane	BDL	BDL	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	0.6
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloroform	BDL	0.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	7
Tetrachloroethene	BDL	2.1	2.3	BDL	BDL	BDL	BDL	1.2	1.1	2.5	BDL	5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
n-Propylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1,1 Trichloroethane	4.8	5.8	4.5	3.3	7.0	11.0	BDL	4.1	4.8	4.7	4.4	5
1,1,2 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	5.4	BDL	BDL	BDL	BDL	1
1,2-Dichloroethane	NA	NA	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA	0.6
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3
Trichloroethene	3.4	3.6	3.4	3.3	BDL	BDL	BDL	2.9	2.6	1.9	2.2	5
1,3,5-Trimethylbenzene	BDL	BDL	4.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2,4-Trimethylbenzene	BDL	BDL	5.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	4.3	BDL	BDL	BDL	BDL	--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10
Carbon Tetrachloride	BDL	BDL	0.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Chloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
p-Ethyltoluene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL	--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	--
<b>Total VOCs</b>	<b>18.5</b>	<b>22.4</b>	<b>28.5</b>	<b>13.9</b>	<b>13.4</b>	<b>31.5</b>	<b>9.7</b>	<b>16.1</b>	<b>15.1</b>	<b>18.1</b>	<b>19.1</b>	<b>50</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>												
1,2-Dichlorobenzene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	3
2,4-Dinitrotoluene	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	5
Bis(2-Ethylhexyl) Phthalate	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	5
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>--</b>
<b>INORGANIC PARAMETERS (mg/l)</b>												
ph	5.21	NA	NA	5.05	NA	NA	NA	5.10	NA	NA	NA	--
Specific Conductance	140	NA	NA	151	NA	NA	NA	128	NA	NA	NA	--
Alkalinity as Calcium Carbonate	5	NA	NA	BDL	NA	NA	NA	17	NA	NA	NA	--
B.O.D.	3.6	NA	NA	NA	NA	NA	NA	BDL	NA	NA	NA	--
Chemical Oxygen Demand	BDL	NA	NA	38.0	NA	NA	NA	BDL	NA	NA	NA	--
Hardness, Total	27.2	NA	NA	27.6	NA	NA	NA	30.0	NA	NA	NA	--
Nitrate as N	8.15	NA	NA	7.64	NA	NA	NA	1.89	NA	NA	NA	10
Total Phosphorus as P	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	--
Sodium, Total	13	NA	NA	13.6	NA	NA	NA	17.1	NA	NA	12.9	20
Total Kjeldahl as N	BDL	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	NA	--
Ammonia as N	BDL	NA	NA	BDL	NA	NA	NA	0.063	NA	NA	NA	2
Sulfate	BDL	NA	NA	BDL	NA	NA	NA	4.17	NA	NA	NA	250
Chloride	10	NA	NA	13.0	NA	NA	NA	25.0	NA	NA	NA	250
Total Dissolved Solids	110	NA	NA	112	NA	NA	NA	106	NA	NA	NA	--
Total Suspended Solids	BDL	NA	NA	1.0	NA	NA	NA	1.0	NA	NA	NA	--
Aluminum, Total	0.051	NA	NA	0.008	NA	NA	NA	0.010	NA	NA	0.072	--
Iron, Total	0.039	NA	NA	0.052	NA	NA	NA	BDL	NA	NA	0.256	0.3
Manganese, Total	0.038	NA	NA	0.016	NA	NA	NA	0.013	NA	NA	0.015	0.3
Nickel, Total	0.003	NA	NA	BDL	NA	NA	NA	BDL	NA	NA	0.008	0.1
Chromium, Total	BDL	NA	NA	BDL	NA	NA	NA	0.001	NA	NA	BDL	0.05

Notes:  
Data obtained from NCDPW  
ug/l: Micrograms per liter  
mg/l: Milligrams per liter  
BDL: Below detection limit  
NA: Constituent not analyzed  
LA: Lab accident  
B: Detected in associated method blank  
█: Analytes and groundwater cleanup criteria specified for termination of remedial system  
█: Constituent exceeds NYSDEC Class GA Groundwater Standards  
--: Not established

**TABLE 38  
 NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
 FIREMAN'S TRAINING CENTER  
 OLD BETHPAGE, NEW YORK  
 OFF-SITE MONITORING WELL DATA  
 WELL NUMBER RB-1**

RB-1	DATE SAMPLED										NYSDEC Class GA Groundwater Standards
	6/8/99	6/14/00	6/18/01	7/2/02	7/9/03	6/21/04	6/22/05	6/22/06	6/29/07		
<b>VOLATILE ORGANICS COMPOUNDS (ug/l)</b>											
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	2
1,1-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
Methylene Chloride	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL	LA	5
t-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
c-1,2-Dichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5
1,2-Dichloroethene	NA	NA	NA	BDL	BDL	BDL	BDL	NA	BDL		--
Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		1
Toluene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Chloroform	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		7
Tetrachloroethene	<b>5.8</b>	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Chlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Ethyl Benzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
m,p-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
o-Xylene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Isopropylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
n-Propylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL		5
2,2 Dichloropropane & cis-1,2-Dichloroethene	BDL	BDL	BDL	BDL	NA	NA	NA	NA	NA		5
Dichlorodifluoromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Trichlorofluoromethane	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL		5
1,1,1 Trichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
1,1,2 Trichloroethane	NA	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL		1
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL	BDL	NA	BDL	NA		0.6
1,2 Dibromoethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		0.0006
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		3
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		3
Trichloroethene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
1,3,5-Trimethylbenzene	NA	NA	NA	NA	BDL	BDL	BDL	BDL	BDL		5
1,2,4-Trimethylbenzene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		5
Naphthalene	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		50
1,1,1-Trichloromethane	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		--
Methyl t-Butylether (MTBE)	BDL	BDL	BDL	BDL	<b>54.8</b>	BDL	BDL	BDL	BDL		10
Carbon Tetrachloride	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL		5
Chloromethane	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL		5
p-Ethyltoluene	NA	NA	NA	NA	NA	NA	NA	NA	BDL		--
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NA	NA	NA	NA	NA	NA	NA	BDL		5
Chlorodifluoromethane	NA	NA	NA	NA	NA	NA	NA	BDL		--	
<b>Total VOCs</b>	<b>5.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>54.8</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>		<b>50</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS (ug/l)</b>											
1,2-Dichlorobenzene	BDL	NA	BDL	BDL	BDL	BDL	BDL	BDL	BDL		3
2,4-Dinitrotoluene	BDL	NA	NA	BDL	BDL	BDL	BDL	BDL	BDL		5
Bis(2-Ethylhexyl) Phthalate	NA	NA	NA	NA	NA	BDL	BDL	BDL	BDL		5
Fluorene	BDL	NA	NA	BDL	NA	NA	NA	NA	NA		50
Naphthalene	BDL	NA	BDL	BDL	NA	NA	NA	NA	NA		50
<b>Total Semi-VOCs</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>		<b>--</b>
<b>INORGANIC PARAMETERS (mg/l)</b>											
ph	5.58	6.80	6.54	6.42	LA	6.36	6.54	6.54	5.93		--
Specific Conductance	5103	451	430	365	311	334	340	308	402		--
Alkalinity as Calcium Carbonate	17	49.8	44	47	24	22	50	38	36		--
B.O.D.	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		--
Chemical Oxygen Demand	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		--
Hardness, Total	423	28.0	66.6	68.9	54.1	57.6	66.5	58.7	50.2		--
Nitrate as N	3.77	BDL	2.16	2.77	2.04	2.00	1.50	1.13	0.659		10
Total Phosphorus as P	BDL	BDL	BDL	BDL	BDL	0.28	BDL	BDL	BDL		--
Sodium, Total	<b>807</b>	<b>65.1</b>	<b>48.4</b>	<b>36.6</b>	<b>37.4</b>	<b>34.8</b>	<b>40.1</b>	<b>32.7</b>	<b>64.1</b>		20
Total Kjeldahl as N	0.1	BDL	0.13	0.14	0.26	0.15	BDL	0.14	BDL		--
Ammonia as N	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		2
Sulfate	BDL	63.7	38.2	24.2	22.6	25.1	20.1	11.7	19.4		250
Chloride	<b>1574</b>	55.0	65	50	52.5	57.5	55	55	95		250
Total Dissolved Solids	<b>2888</b>	255	258	211	194	205	185	163	252		--
Total Suspended Solids	BDL	1.0	2.0	BDL	BDL	BDL	BDL	BDL	0.5		--
Aluminum, Total	BDL	BDL	0.04	0.017	0.008	BDL	BDL	BDL	0.004		--
Iron, Total	0.008	0.027	0.031	0.049	0.008	0.014	BDL	0.041	BDL		0.3
Manganese, Total	0.040	0.002	BDL	BDL	BDL	BDL	0.014	BDL	BDL		0.3
Nickel, Total	BDL	0.001	0.001	0.001	BDL	BDL	BDL	BDL	BDL		0.1
Chromium, Total	BDL	0.003	0.003	0.002	BDL	0.001	0.001	BDL	0.001		0.05

Notes:  
 Data obtained from NCDPW  
 ug/l: Micrograms per liter  
 mg/l: Milligrams per liter  
 BDL: Below detection limit  
 NA: Constituent not analyzed  
 LA: Lab accident  
 [shaded box]: Analytes and groundwater cleanup criteria specified for termination of remedial system  
 [bold box]: Constituent exceeds NYSDEC Class GA Groundwater Standards  
 --: Not established



**APPENDIX B**

**NYSDEC LETTER ON FTC  
GROUNDWATER MONITORING PROGRAM**

**New York State Department of Environmental Conservation**

**Division of Environmental Remediation**

Remedial Bureau A  
625 Broadway, 11<sup>th</sup> Floor  
Albany, New York 12233-7015  
Phone: (518) 402-9625 • Fax: (518) 402-9022

Website: [www.dec.ny.gov](http://www.dec.ny.gov)



Mr. Raymond A. Ribeiro, P.E.  
Commissioner  
County of Nassau  
Department of Public Works  
1194 Prospect Avenue  
Westbury, New York 11590-2723

Re: Nassau County Fireman's Training Center  
Site # 130042  
(T) Oyster Bay, Nassau County

Dear Commissioner Ribeiro:

The DEC and DOH have reviewed the 2005 NCFTC Annual Operations Monitoring Summary, the 2006 NCFTC Annual Operations Monitoring Summary and the response to comments on the County's request for modification to the Final Remediation Monitoring Plan, along with the cumulative monitor well data re-grouped by well.

After careful consideration of the cumulative data, the Departments believe the following changes would best serve the efficiencies required by Nassau County and the need to monitor the continuing effectiveness of the implemented remedy:

The following wells should be sampled for VOCs semi-annually, preferably in the spring and fall, for inorganics annually, and on-site wells for SVOCs only when water levels rise to the level they were prior to the December 2005 sample event:

On Site: W-32 and W-35

Off Site: BP-3C; BP-4B; BP-12B; BP-14B; and BP-15B

The following wells should be sampled for VOCs and inorganics every 5<sup>th</sup> quarter (i.e., March 2008; June 2009; September 2010), and on-site wells for SVOCs only when water levels

are high enough to potentially trigger a release:

On Site: W-4A; W-4B; W-7B; W-9A; W-14B; W-23; and W-31

Off Site: BP-3B; BP-9A; BP-9B; BP-10C; BP-13B; BP-13C; BP-14C; BP-15C; Obv-1B  
and Obv-1C.

The following wells can be removed from the active sampling array but should continue to be periodically inspected and maintained:

On Site: W-7A; W-7C; W-7D; W-9B; W-14A

Off Site: BP-2A; BP-2B; BP-9C; BP-10B; BP-12A; BP-12C; U6A and RB1.

The Departments recognize the value of the efforts of Nassau County to connect to the sanitary sewer so that a portion of the effluent could be diverted and plant capacity increased. The County's decision to withdraw its request for the initiation of onsite Termination Monitoring is acknowledged. Should you have any questions or concerns please address them to Ms. Cynthia Whitfield, P.E., of my staff.

Sincerely,

Joseph A. Yavonditte, P.E.  
Chief  
Remedial Section B

cc: R. Ockerby  
W. Parish

cc: D. Miles

## **APPENDIX C**

### **DETAILS OF STATISTICAL ANALYSIS**

**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL FTC-W-31**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/25/10	41.6
9/5/08	0
6/27/07	0
9/25/06	17
6/14/06	912.8
6/21/05	0
6/21/04	0
6/27/03	1.2

*Basic Statistical Calculations*

Average (ug/l):	121.575
Median (ug/l):	0.6
Standard Deviation (ug/l):	320.0403981
Upper Limit (ug/l):	1081.696194
Lower Limit (ug/l):	-505.7041803
Slope (ug/l/yr):	-0.34508145

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	9/5/08	0	0.111111111	-1.220640349
2	6/27/07	0	0.222222222	-0.764709674
3	6/21/05	0	0.333333333	-0.430727299
4	6/21/04	0	0.444444444	-0.139710299
5	6/27/03	1.2	0.555555556	0.139710299
6	9/25/06	17	0.666666667	0.430727299
7	3/25/10	41.6	0.777777778	0.764709674
8	6/14/06	912.8	0.888888889	1.220640349

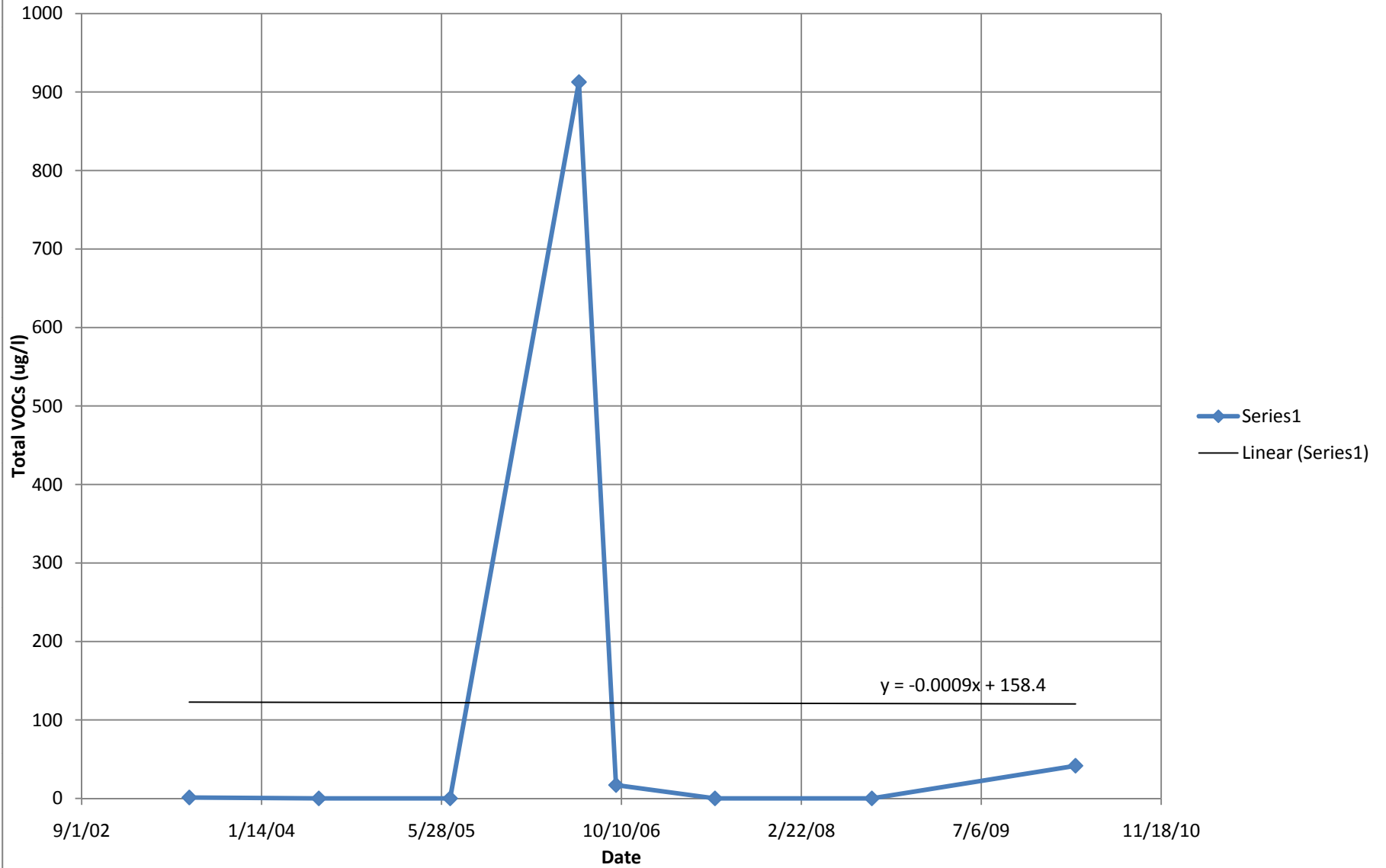
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	9/5/08	0	0	0.111111111	-1.22064
2	6/27/07	0	0	0.222222222	-0.76471
3	6/21/05	0	0	0.333333333	-0.43073
4	6/21/04	0	0	0.444444444	-0.13971
5	6/27/03	1.2	0.182321557	0.555555556	0.13971
6	9/25/06	17	2.833213344	0.666666667	0.430727
7	3/25/10	41.6	3.728100167	0.777777778	0.76471
8	6/14/06	912.8	6.816516799	0.888888889	1.22064

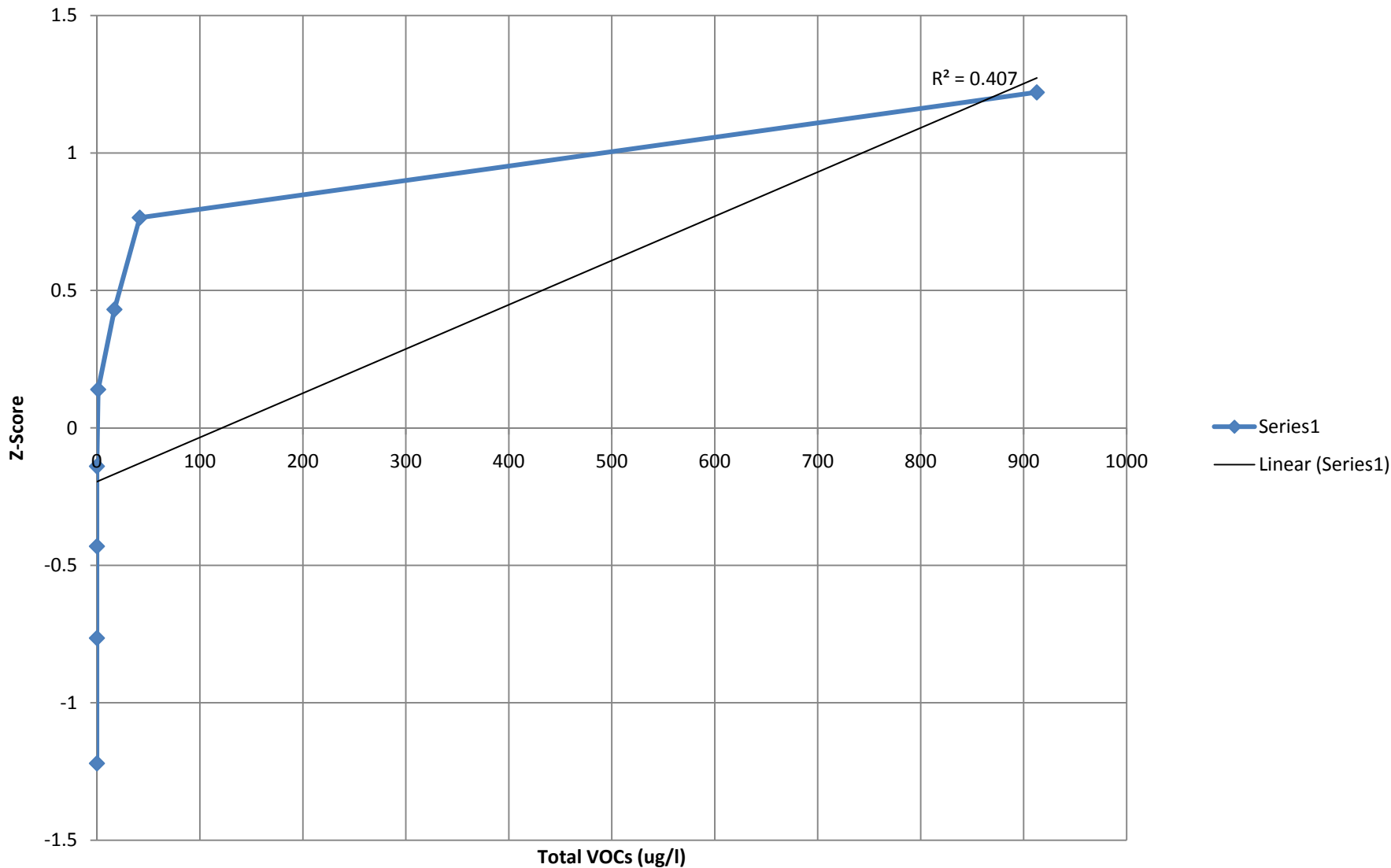
Notes:

: Total VOC concentration does not include methylene chloride

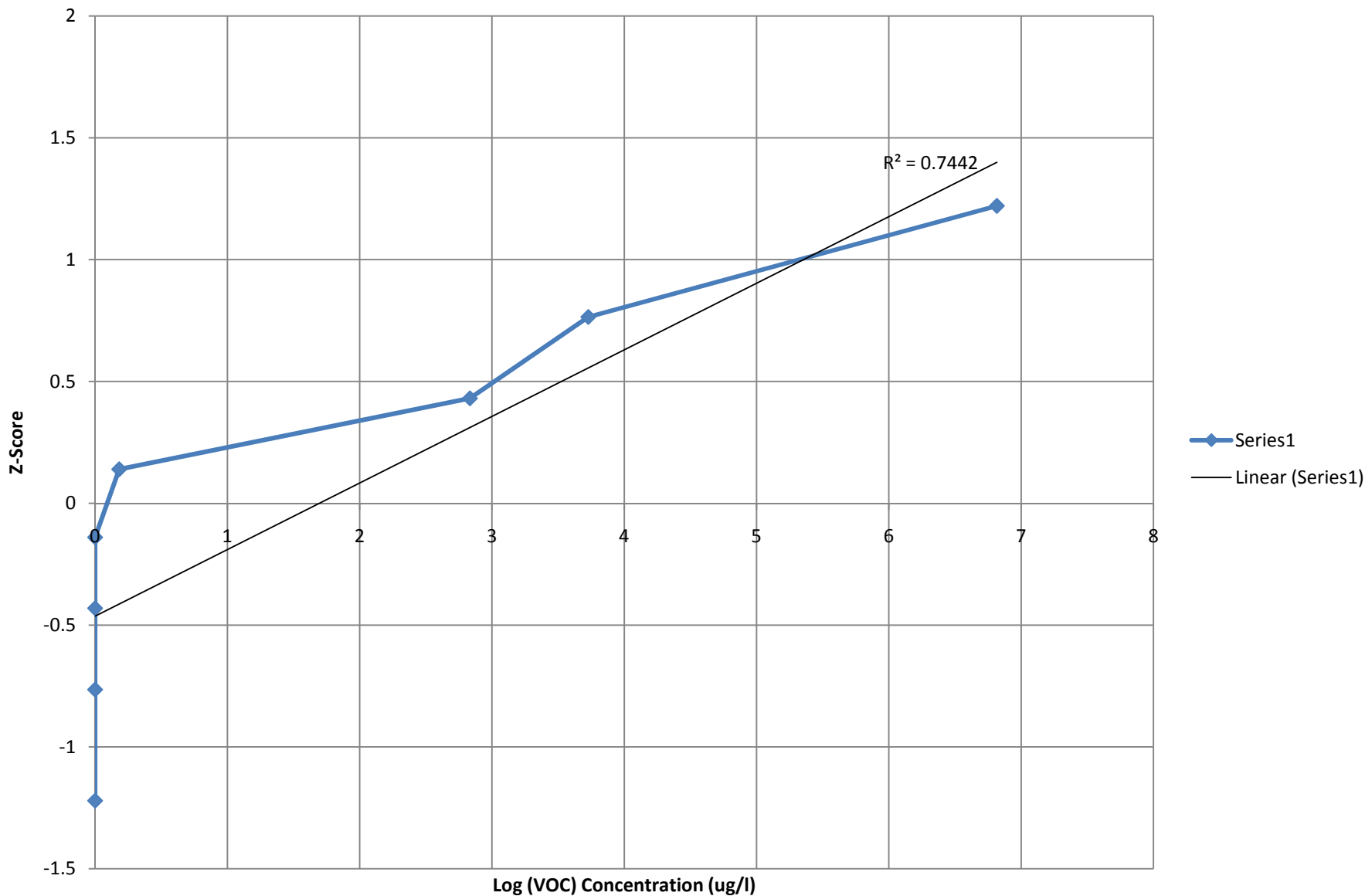
# Well FTC-W-31 Total VOCs Over Time



# Well FTC-W-31 Probability Plot



### Well FTC-W-31 Logarithmic Probability Chart





**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL FTC-W-32**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/3/11	0.9
8/30/10	0
3/11/10	0
9/4/09	22.9
3/9/09	0
9/4/08	2.1
3/11/08	47.8
1/7/08	73.9

*Basic Statistical Calculations*

Average (ug/l):	18.45
Median (ug/l):	1.5
Standard Deviation (ug/l):	28.16395873
Upper Limit 9ug/l):	102.9418762
Lower Limit (ug/l):	-36.75135911
Slope (ug/l/yr):	-17.58839092

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	8/30/10	0	0.111111111	-1.220640349
2	3/11/10	0	0.222222222	-0.764709674
3	3/9/09	0	0.333333333	-0.430727299
4	3/3/11	0.9	0.444444444	-0.139710299
5	9/4/08	2.1	0.555555556	0.139710299
6	9/4/09	22.9	0.666666667	0.430727299
7	3/11/08	47.8	0.777777778	0.764709674
8	1/7/08	73.9	0.888888889	1.220640349

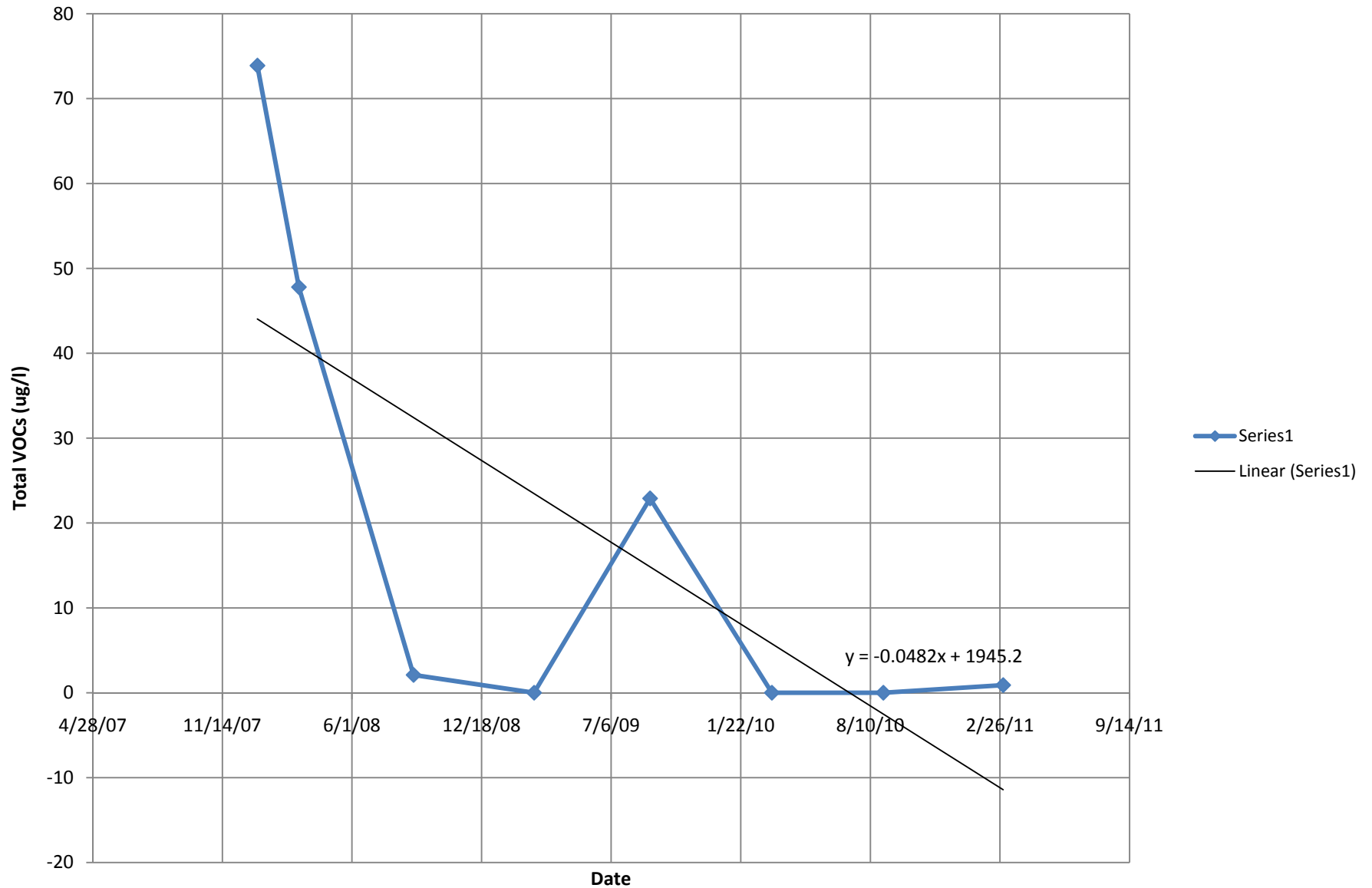
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	8/30/10	0	0	0.111111111	-1.22064
2	3/11/10	0	0	0.222222222	-0.76471
3	3/9/09	0	0	0.333333333	-0.43073
4	3/3/11	0.9	-0.105360516	0.444444444	-0.13971
5	9/4/08	2.1	0.741937345	0.555555556	0.13971
6	9/4/09	22.9	3.131136911	0.666666667	0.430727
7	3/11/08	47.8	3.867025639	0.777777778	0.76471
8	1/7/08	73.9	4.302712828	0.888888889	1.22064

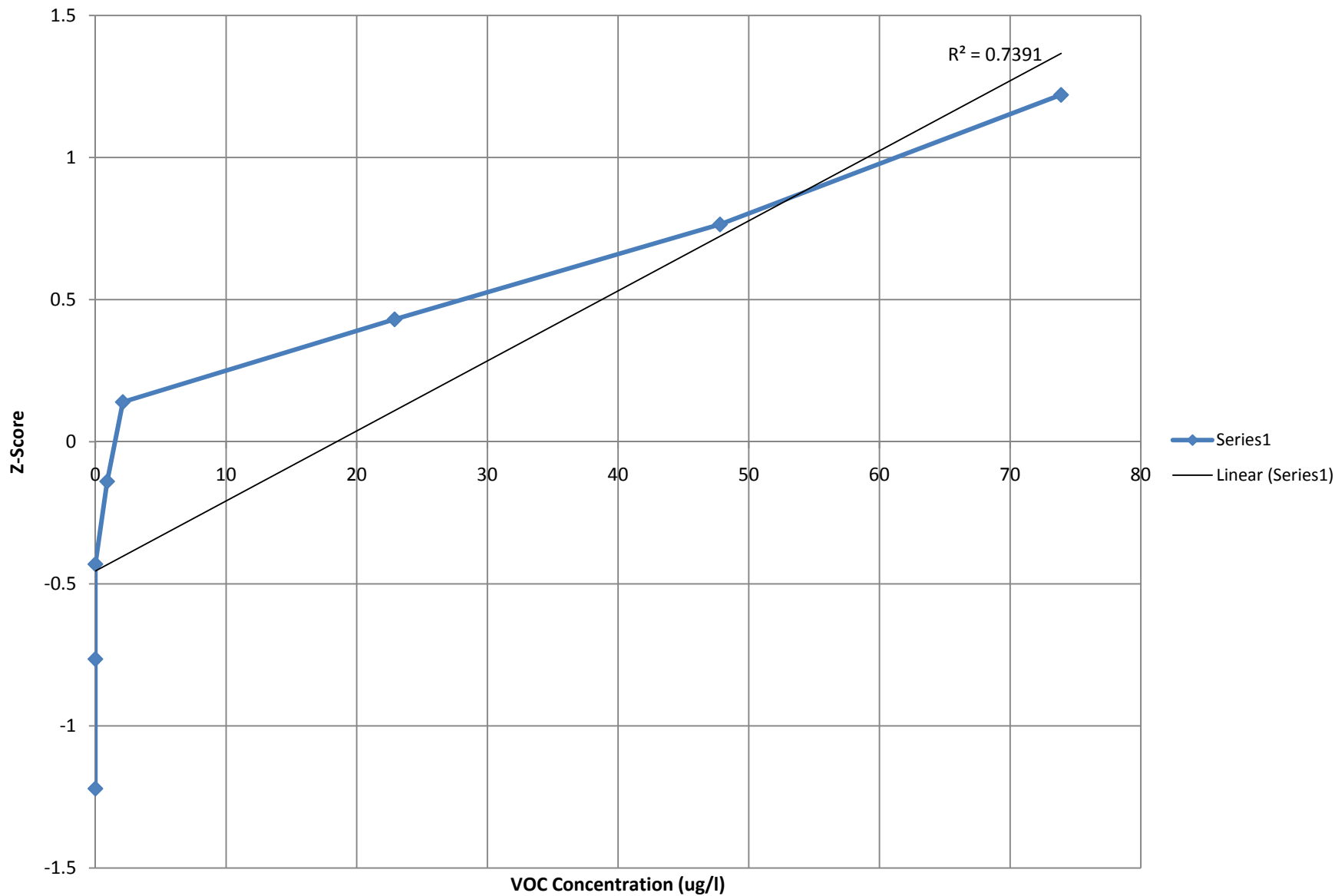
**Notes:**

█ : Total VOC concentration does not include methylene chloride

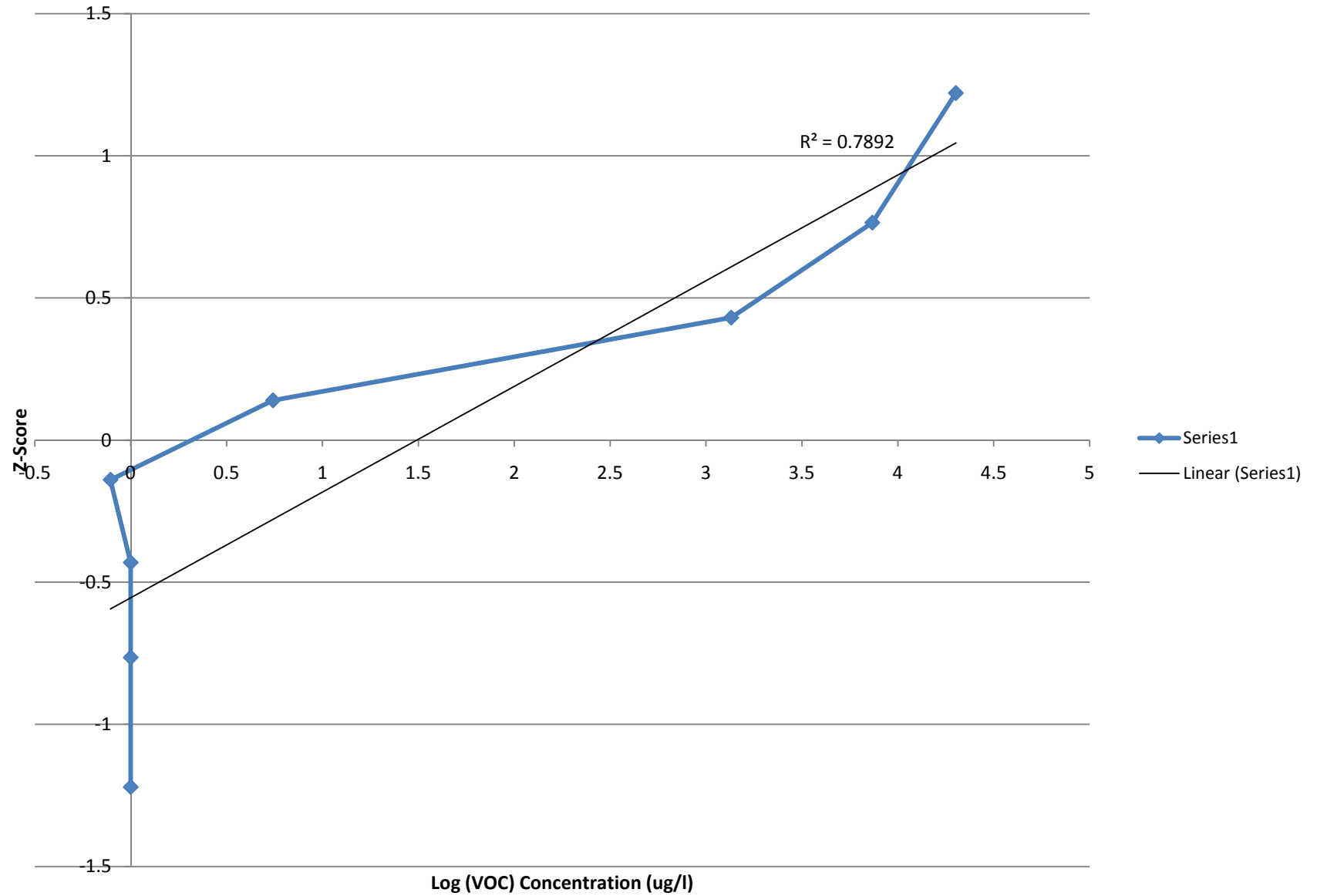
# Well FTC-W-32 Total VOCs Over Time



# Well FTC-W-32 Probability Plot



# Well FTC-W-32 Logarithmic Probability Plot



**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL FTC-W-35**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/3/11	45.4
8/31/10	63.4
3/11/10	0
9/4/09	149.1
3/10/09	9.8
9/4/08	0
3/7/08	103.6
1/4/08	130.3

*Basic Statistical Calculations*

Average (ug/l):	62.7
Median (ug/l):	54.4
Standard Deviation (ug/l):	59.36364929
Upper Limit (ug/l):	240.7909479
Lower Limit (ug/l):	-53.65275261
Slope (ug/l/yr):	-15.21905581

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/11/10	0	0.111111111	-1.220640349
2	9/4/08	0	0.222222222	-0.764709674
3	3/10/09	9.8	0.333333333	-0.430727299
4	3/3/11	45.4	0.444444444	-0.139710299
5	8/31/10	63.4	0.555555556	0.139710299
6	3/7/08	103.6	0.666666667	0.430727299
7	1/4/08	130.3	0.777777778	0.764709674
8	9/4/09	149.1	0.888888889	1.220640349

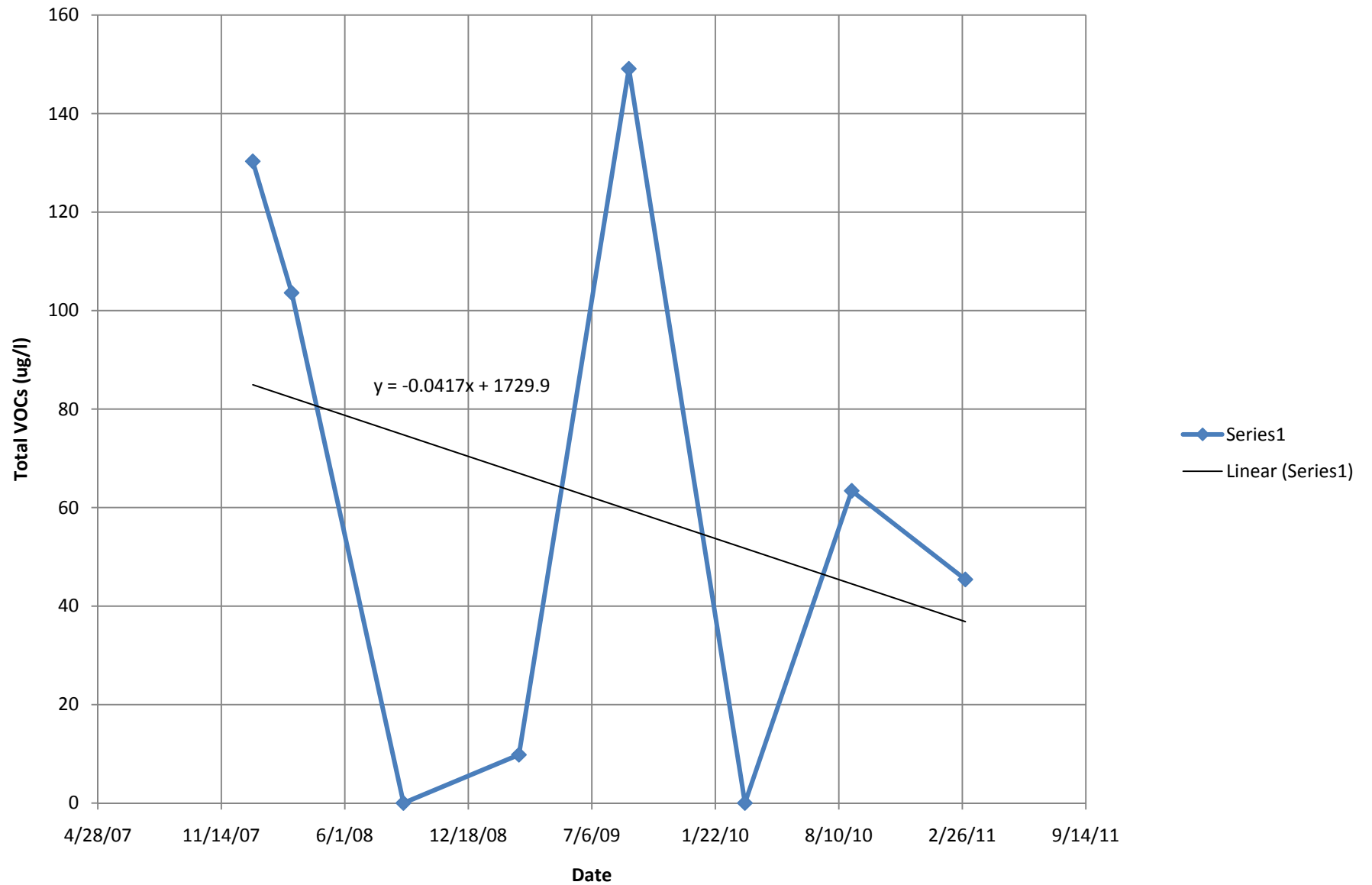
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/11/10	0	0	0.111111111	-1.22064
2	9/4/08	0	0	0.222222222	-0.76471
3	3/10/09	9.8	2.282382386	0.333333333	-0.43073
4	3/3/11	45.4	3.815512105	0.444444444	-0.13971
5	8/31/10	63.4	4.149463861	0.555555556	0.13971
6	3/7/08	103.6	4.64053733	0.666666667	0.430727
7	1/4/08	130.3	4.869839484	0.777777778	0.76471
8	9/4/09	149.1	5.004617222	0.888888889	1.22064

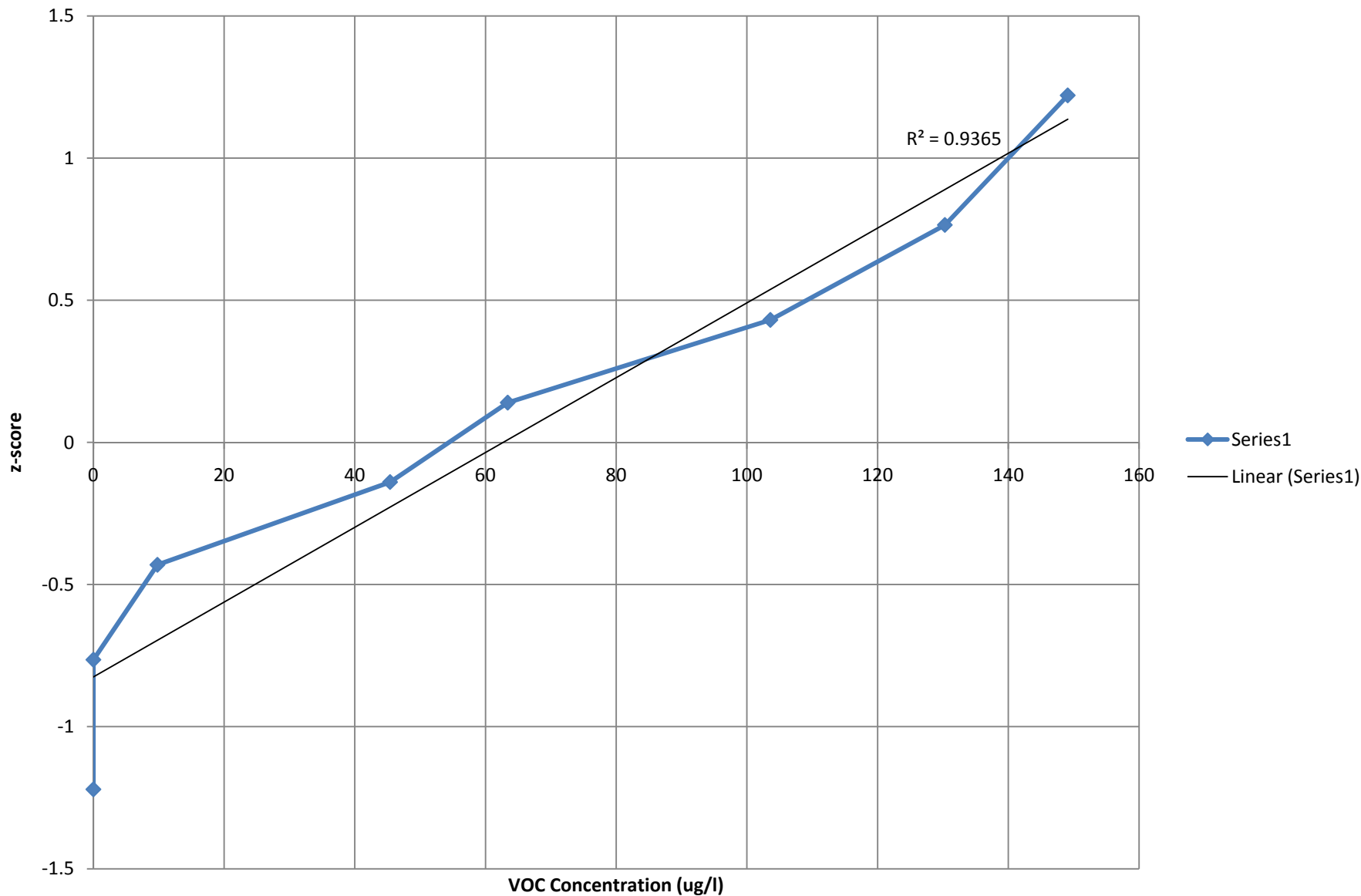
**Notes:**

█ : Total VOC concentration does not include methylene chloride

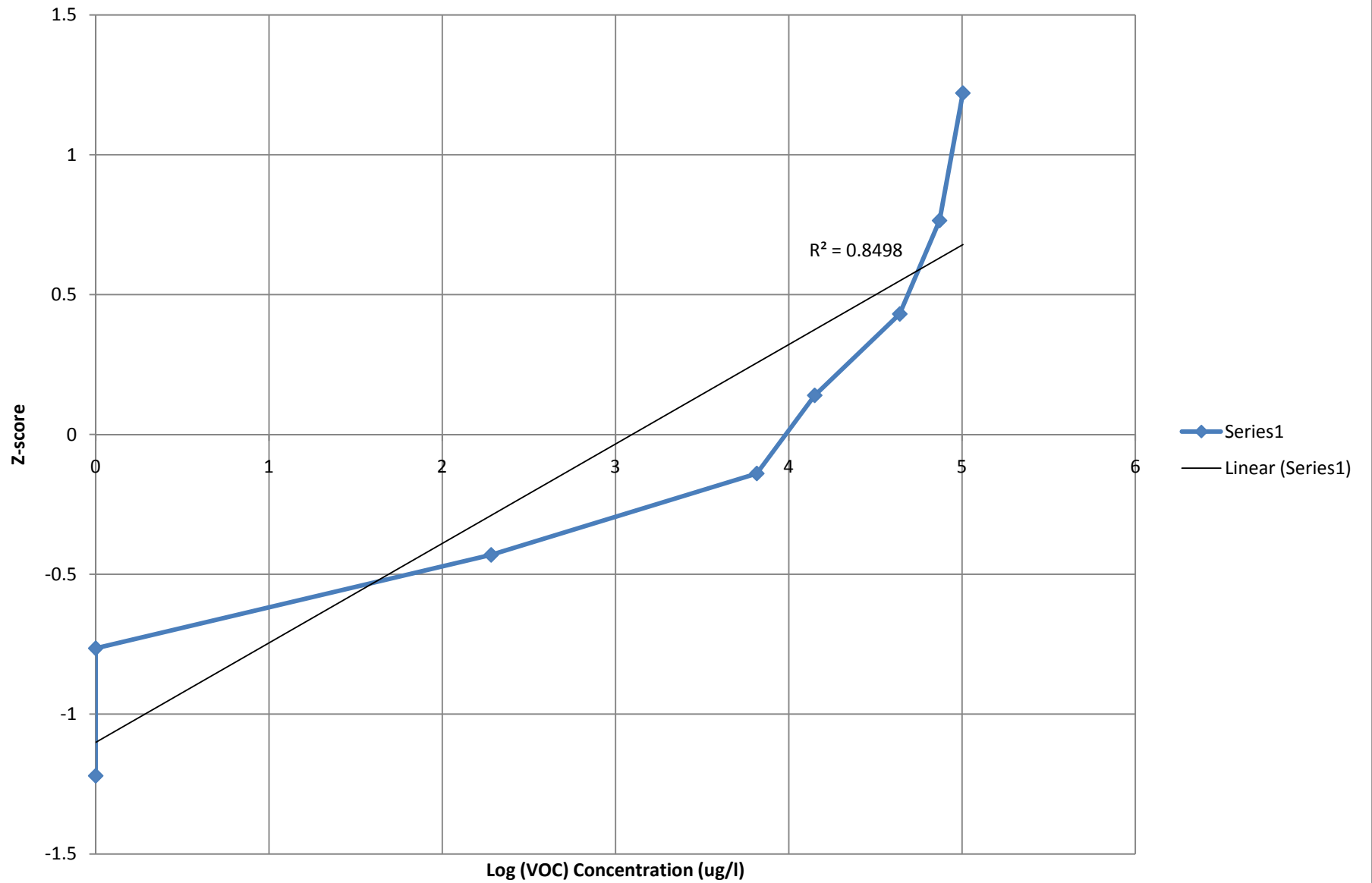
# Well FTC-W-35 Total VOCs Over Time



# Well FTC-W-35 Probability Plot



# Well FTC-W-35 Logarithmic Probability Plot





**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-3B**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/3/11	4.1
7/15/10	13.3
4/8/10	19.8
10/22/09	18.5
4/9/09	13.6
10/10/08	21.3
4/17/08	24.3
1/10/08	26.5

*Basic Statistical Calculations*

Average (ug/l):	17.675
Median (ug/l):	19.15
Standard Deviation (ug/l):	7.172716162
Upper Limit (ug/l):	31.73352368
Lower Limit (ug/l):	3.616476322
Slope (ug/l/yr):	-5.484372315

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/3/11	4.1	0.111111111	-1.220640349
2	7/15/10	13.3	0.222222222	-0.764709674
3	4/9/09	13.6	0.333333333	-0.430727299
4	10/22/09	18.5	0.444444444	-0.139710299
5	4/8/10	19.8	0.555555556	0.139710299
6	10/10/08	21.3	0.666666667	0.430727299
7	4/17/08	24.3	0.777777778	0.764709674
8	1/10/08	26.5	0.888888889	1.220640349

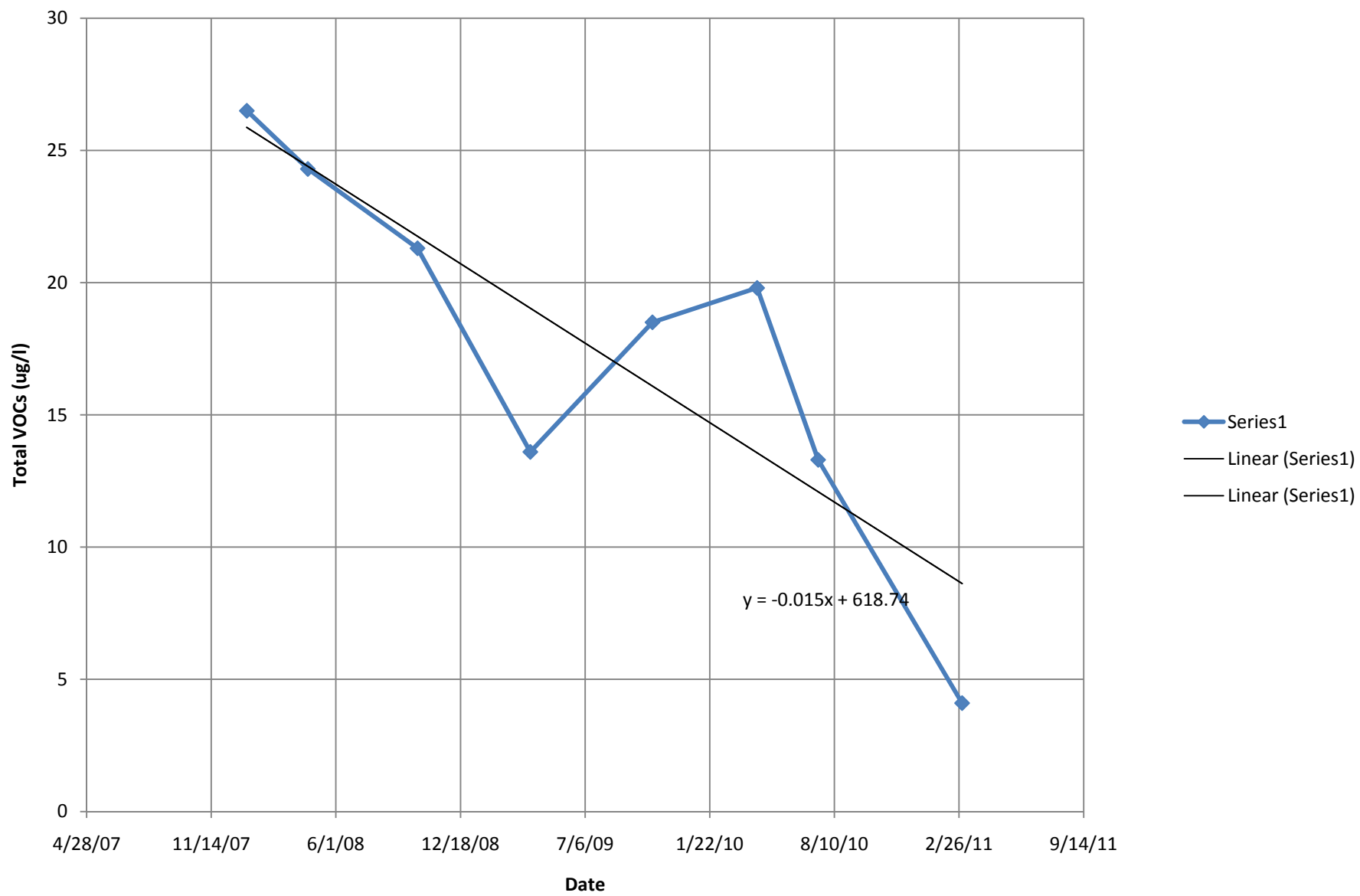
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/3/11	4.1	1.410986974	0.111111111	-1.22064
2	7/15/10	13.3	2.587764035	0.222222222	-0.76471
3	4/9/09	13.6	2.610069793	0.333333333	-0.43073
4	10/22/09	18.5	2.917770732	0.444444444	-0.13971
5	4/8/10	19.8	2.985681938	0.555555556	0.13971
6	10/10/08	21.3	3.058707073	0.666666667	0.430727
7	4/17/08	24.3	3.19047635	0.777777778	0.76471
8	1/10/08	26.5	3.277144733	0.888888889	1.22064

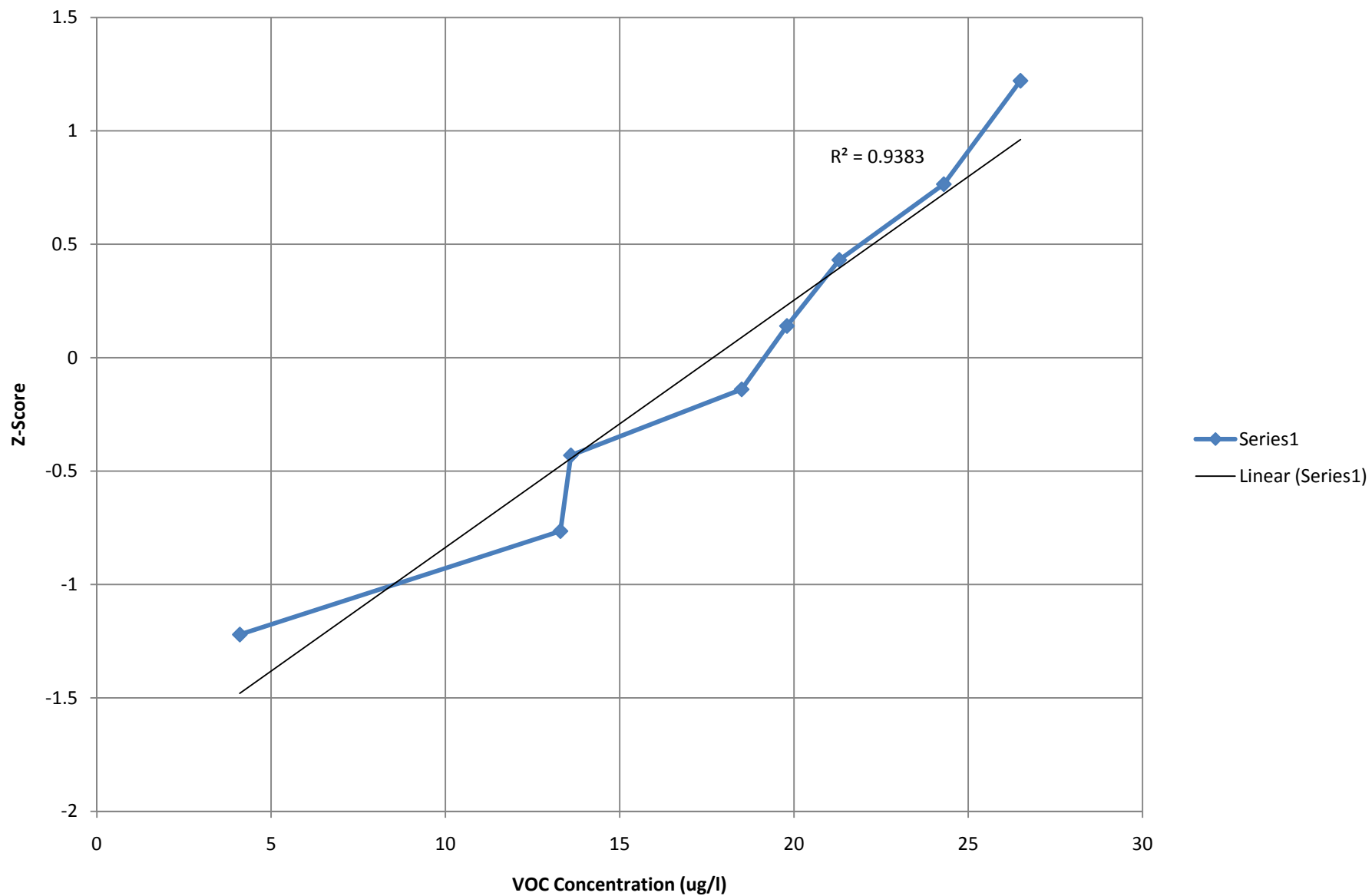
**Notes:**

█ : Total VOC concentration does not include methylene chloride

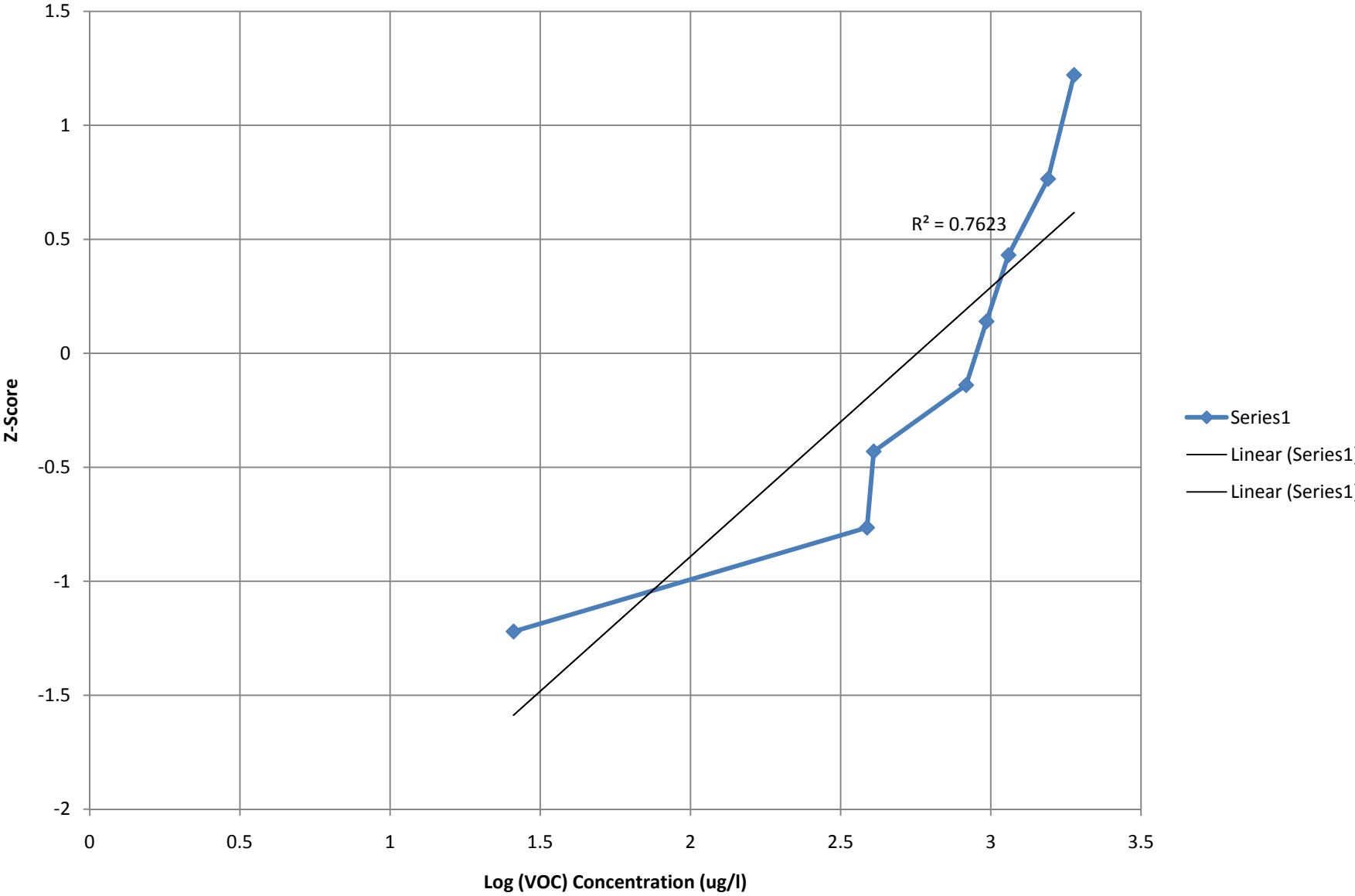
### Well BP-3B Total VOCs Over Time



# Well BP-3B Probability Plot



# Well BP-3B Logarithmic Probability Plot



**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-3C**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/3/11	18.7
7/12/10	85.98
4/7/10	90.7
4/9/09	72.5
10/9/08	122.5
4/17/08	131.8
1/10/08	119.6
10/11/07	88.2

*Basic Statistical Calculations*

Average (ug/l):	91.2475
Median (ug/l):	89.45
Standard Deviation (ug/l):	36.00997947
Upper Limit (ug/l):	161.8270598
Lower Limit (ug/l):	20.66794024
Slope (ug/l/yr):	-20.6722034

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/3/11	18.7	0.111111111	-1.220640349
2	4/9/09	72.5	0.222222222	-0.764709674
3	7/12/10	85.98	0.333333333	-0.430727299
4	10/11/07	88.2	0.444444444	-0.139710299
5	4/7/10	90.7	0.555555556	0.139710299
6	1/10/08	119.6	0.666666667	0.430727299
7	10/9/08	122.5	0.777777778	0.764709674
8	4/17/08	131.8	0.888888889	1.220640349

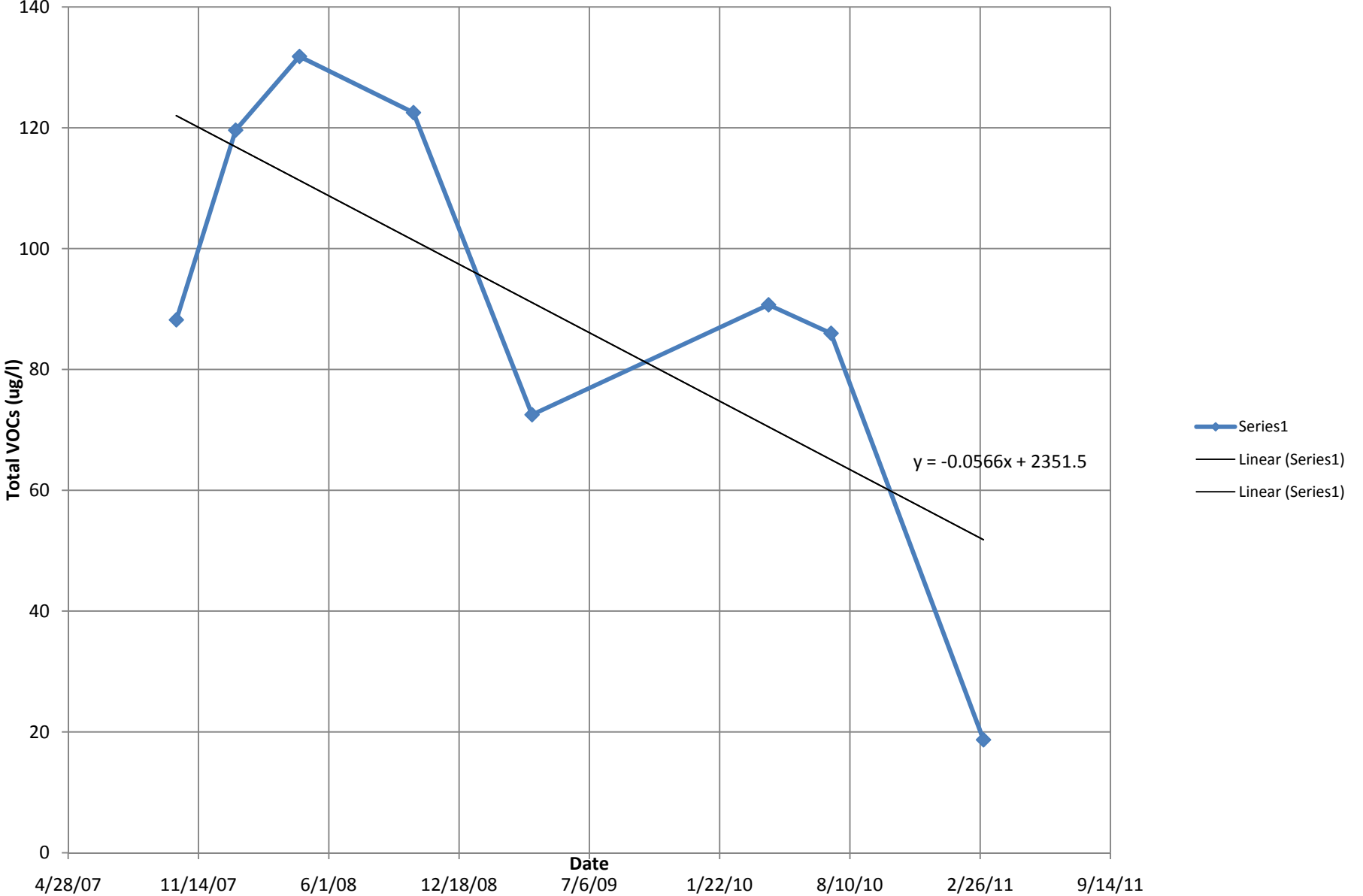
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/3/11	18.7	2.928523524	0.111111111	-1.22064
2	4/9/09	72.5	4.283586562	0.222222222	-0.76471
3	7/12/10	85.98	4.454114711	0.333333333	-0.43073
4	10/11/07	88.2	4.479606963	0.444444444	-0.13971
5	4/7/10	90.7	4.507557357	0.555555556	0.13971
6	1/10/08	119.6	4.784152842	0.666666667	0.430727
7	10/9/08	122.5	4.808111103	0.777777778	0.76471
8	4/17/08	131.8	4.881285622	0.888888889	1.22064

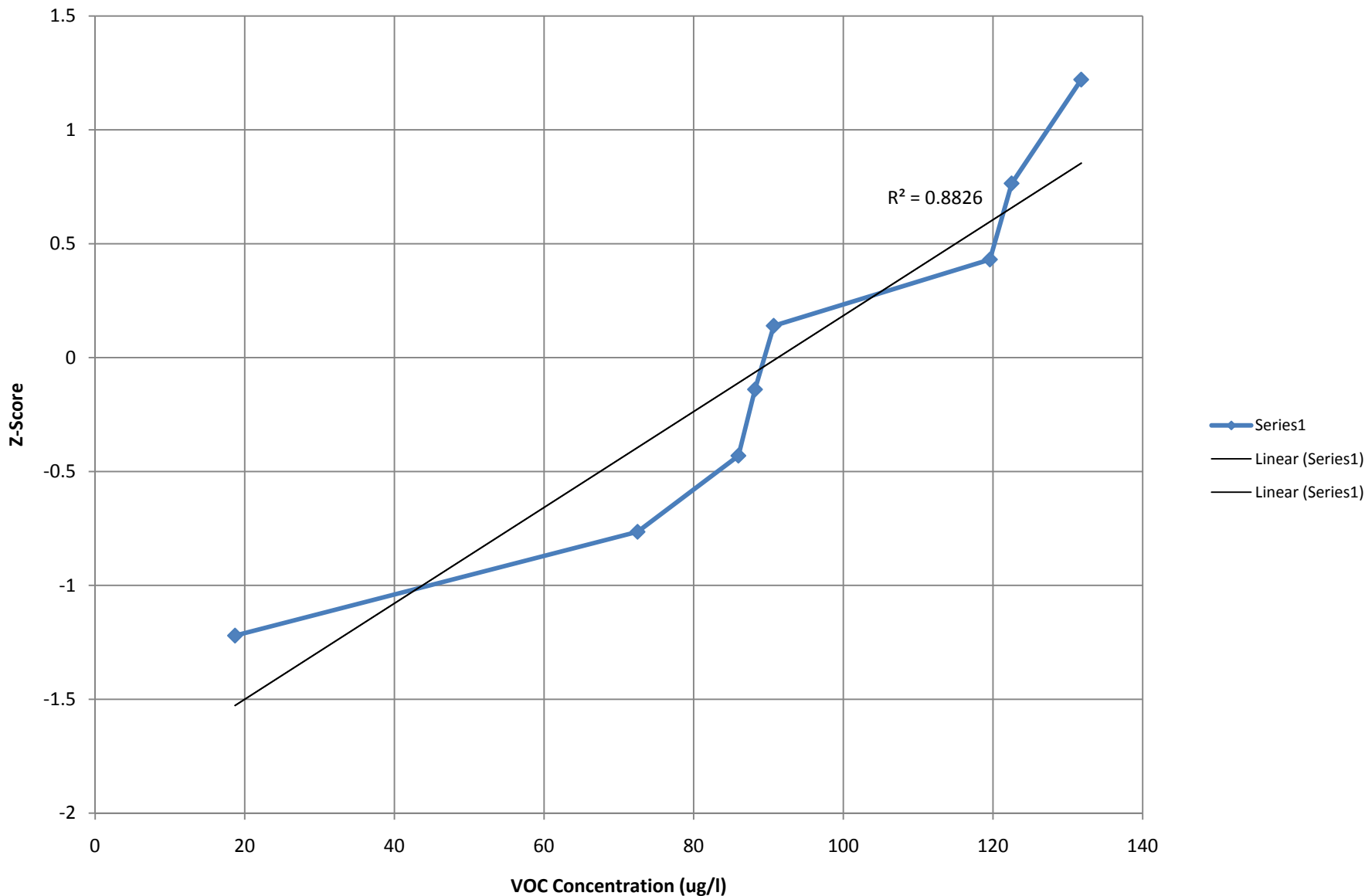
Notes:

█ : Total VOC concentration does not include methylene chloride

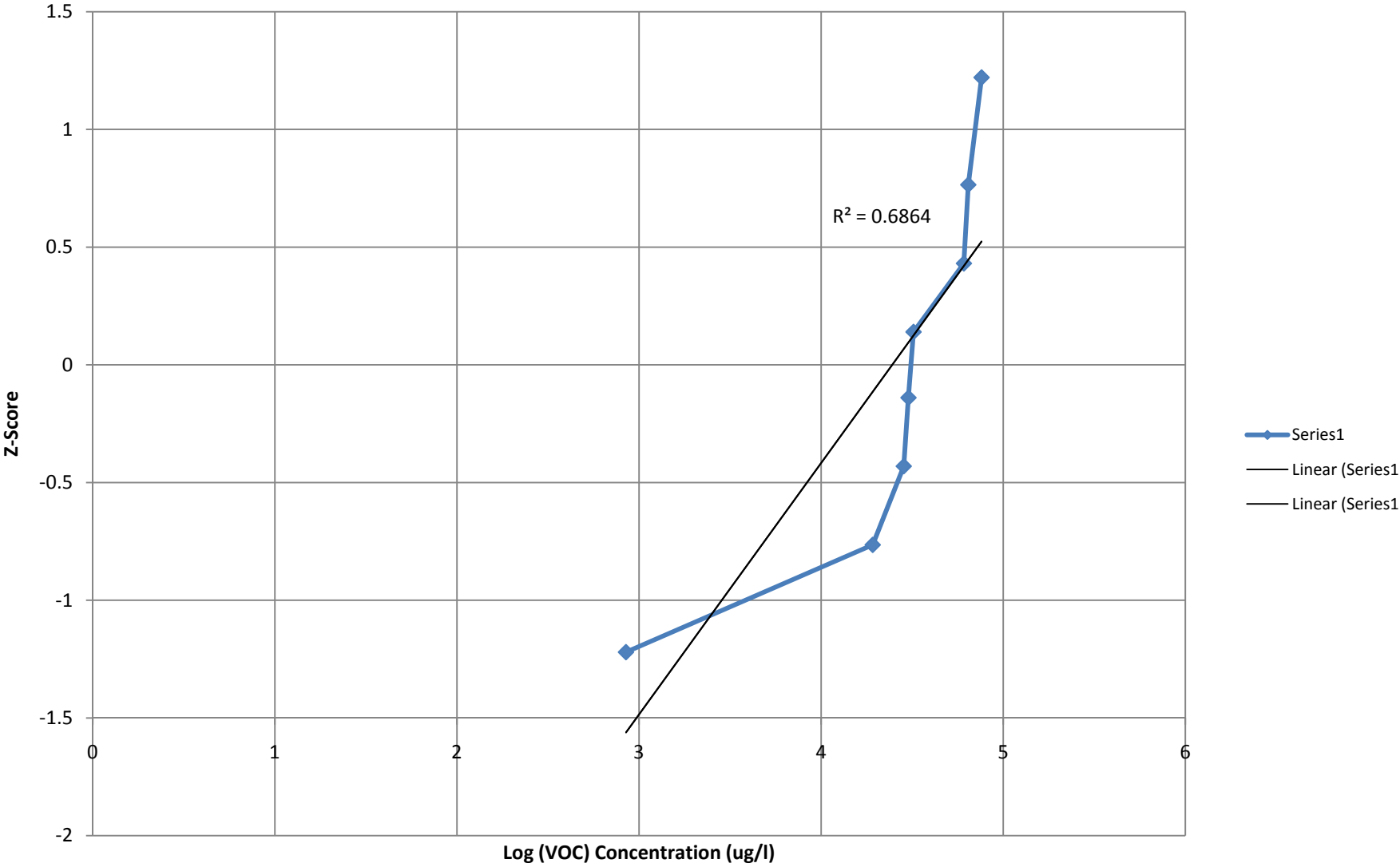
# Well BP-3C Total VOCs Over Time



# Well BP-3C Probability Plot



# Well BP-3C Logarithmic Probability Plot





**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-4C**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/11/11	3.0
12/12/07	37.7
9/21/07	40.6
6/19/07	47.1
3/27/07	44
1/10/07	74.3
9/22/06	76.9
6/15/06	68.8

*Basic Statistical Calculations*

Average (ug/l):	49.1
Median (ug/l):	45.6
Standard Deviation (ug/l):	24.35857139
Upper Limit (ug/l):	96.79279992
Lower Limit (ug/l):	1.307200082
Slope (ug/l/yr):	-14.83565433

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/11/11	3.0	0.111111111	-1.220640349
2	12/12/07	37.7	0.222222222	-0.764709674
3	9/21/07	40.6	0.333333333	-0.430727299
4	3/27/07	44	0.444444444	-0.139710299
5	6/19/07	47.1	0.555555556	0.139710299
6	6/15/06	68.8	0.666666667	0.430727299
7	1/10/07	74.3	0.777777778	0.764709674
8	9/22/06	76.9	0.888888889	1.220640349

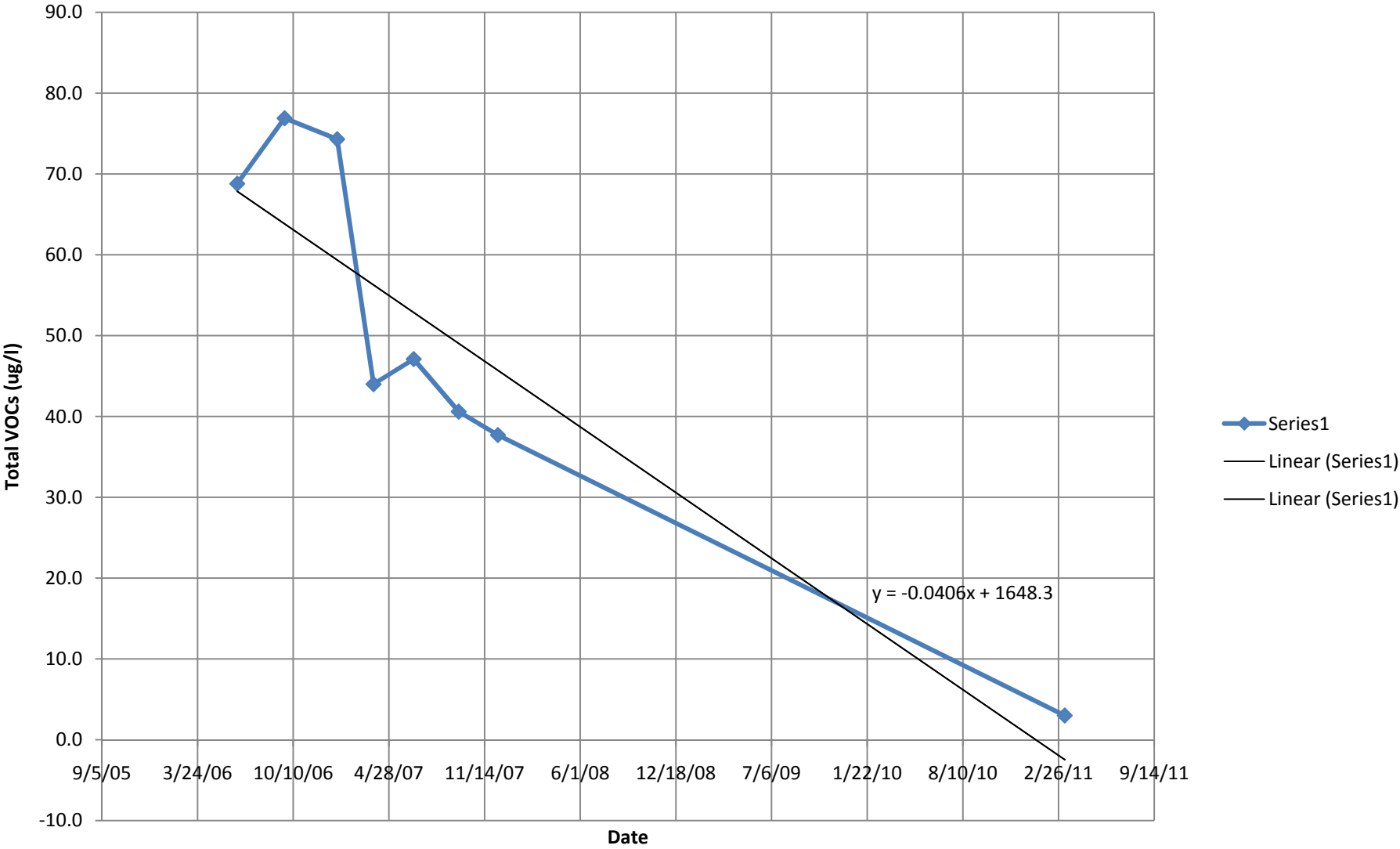
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/11/11	3.0	1.098612289	0.111111111	-1.22064
2	12/12/07	37.7	3.629660094	0.222222222	-0.76471
3	9/21/07	40.6	3.703768067	0.333333333	-0.43073
4	3/27/07	44	3.784189634	0.444444444	-0.13971
5	6/19/07	47.1	3.852273001	0.555555556	0.13971
6	6/15/06	68.8	4.231203745	0.666666667	0.430727
7	1/10/07	74.3	4.308110952	0.777777778	0.76471
8	9/22/06	76.9	4.342505877	0.888888889	1.22064

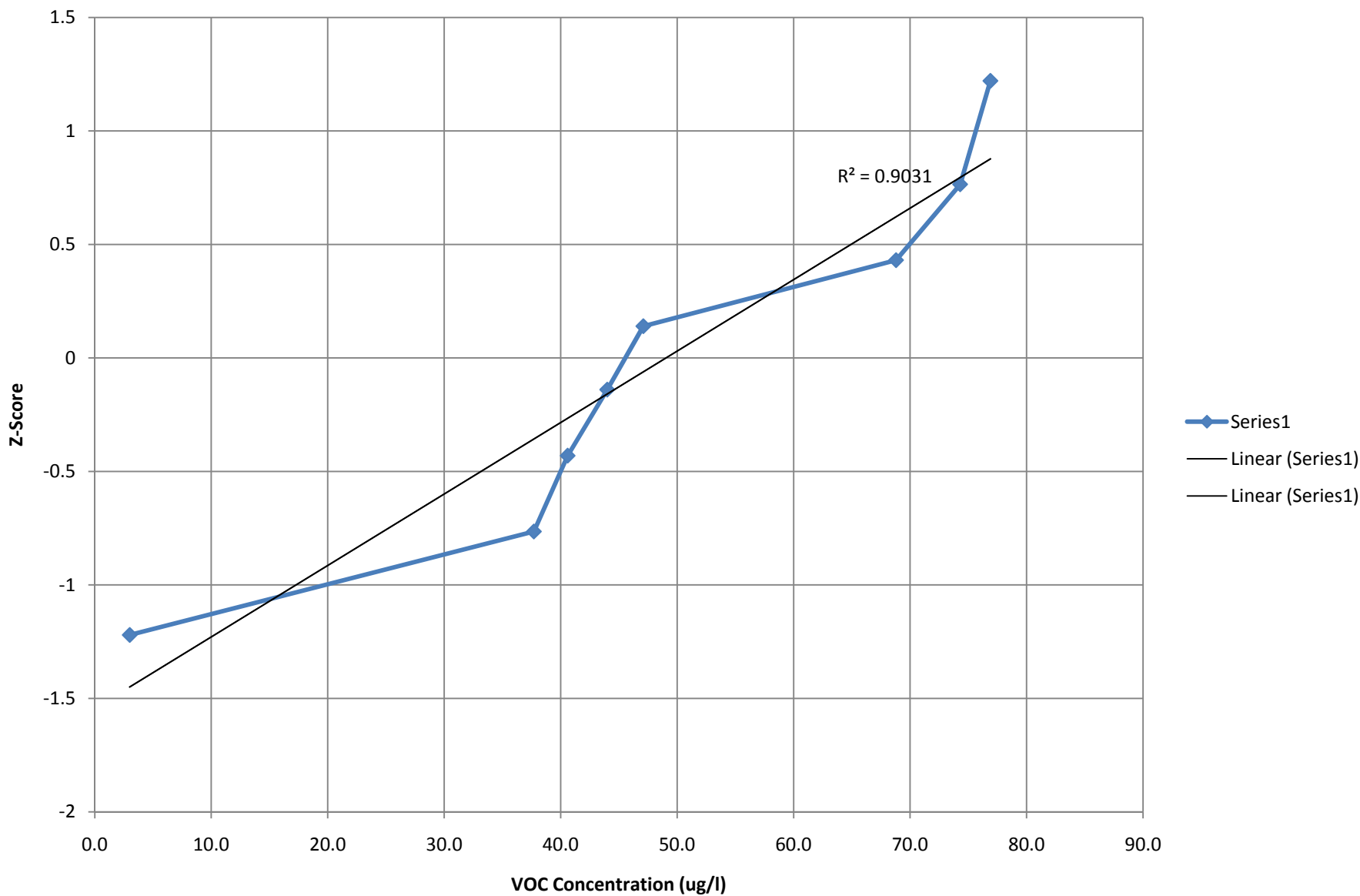
**Notes:**

█ : Total VOC concentration does not include methylene chloride

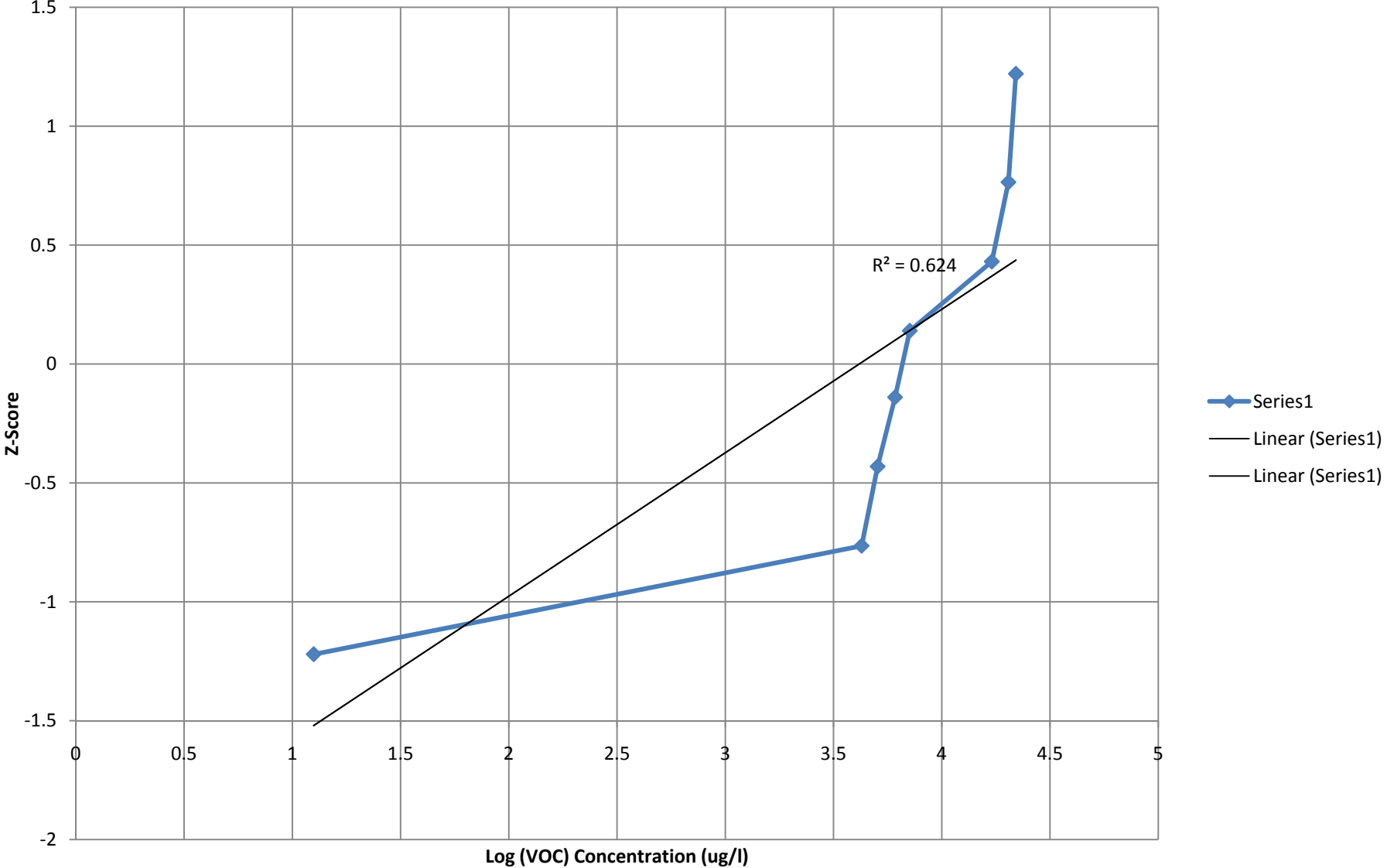
# Well BP-4C Total VOCs Over Time



# Well BP-4C Probability Plot



# Well BP-4C Logarithmic Probability Plot



**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-9B**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/17/11	2
9/10/08	15.8
12/11/07	28.7
9/19/07	22.1
6/19/07	28
3/28/07	28
1/9/07	32.6
9/19/06	0*

\*: Outlying concentration not included in statistical analysis

*Basic Statistical Calculations*

Average (ug/l):	22.45714286
Median (ug/l):	28
Standard Deviation (ug/l):	10.5375293
Upper Limit (ug/l):	43.11070029
Lower Limit (ug/l):	1.803585423
Slope (ug/l/yr):	-7.037366871

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/17/11	2	0.125	-1.15034938
2	9/10/08	15.8	0.25	-0.67448975
3	9/19/07	22.1	0.375	-0.318639364
4	3/28/07	28	0.5	-1.39214E-16
5	6/19/07	28	0.625	0.318639364
6	12/11/07	28.7	0.75	0.67448975
7	1/9/07	32.6	0.875	1.15034938

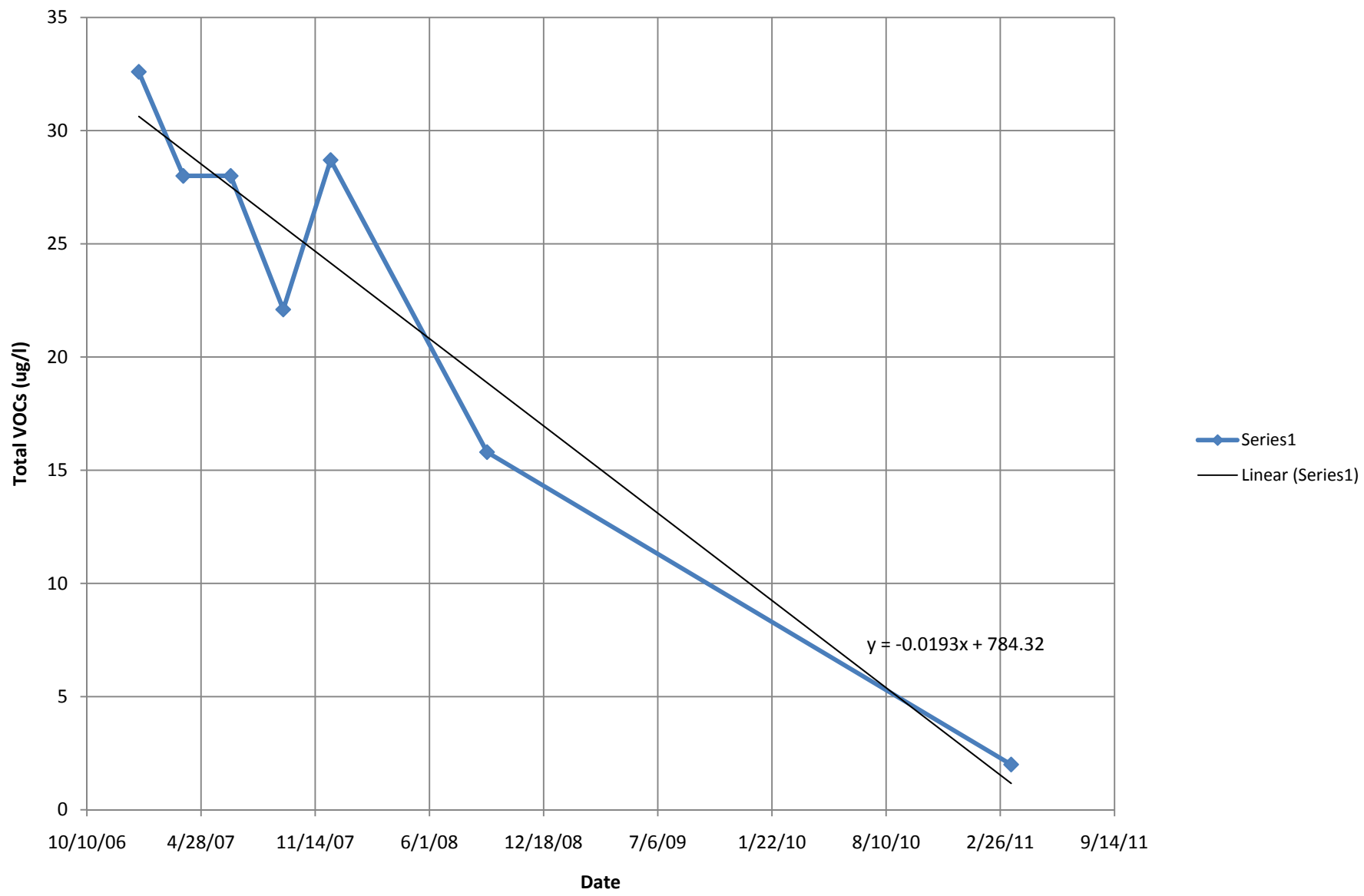
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/17/11	2	0.693147181	0.125	-1.15034938
2	9/10/08	15.8	2.76000994	0.25	-0.67448975
3	9/19/07	22.1	3.095577609	0.375	-0.318639364
4	3/28/07	28	3.095577609	0.5	-1.39214E-16
5	6/19/07	28	3.33220451	0.625	0.318639364
6	12/11/07	28.7	3.33220451	0.75	0.67448975
7	1/9/07	32.6	3.356897123	0.875	1.15034938

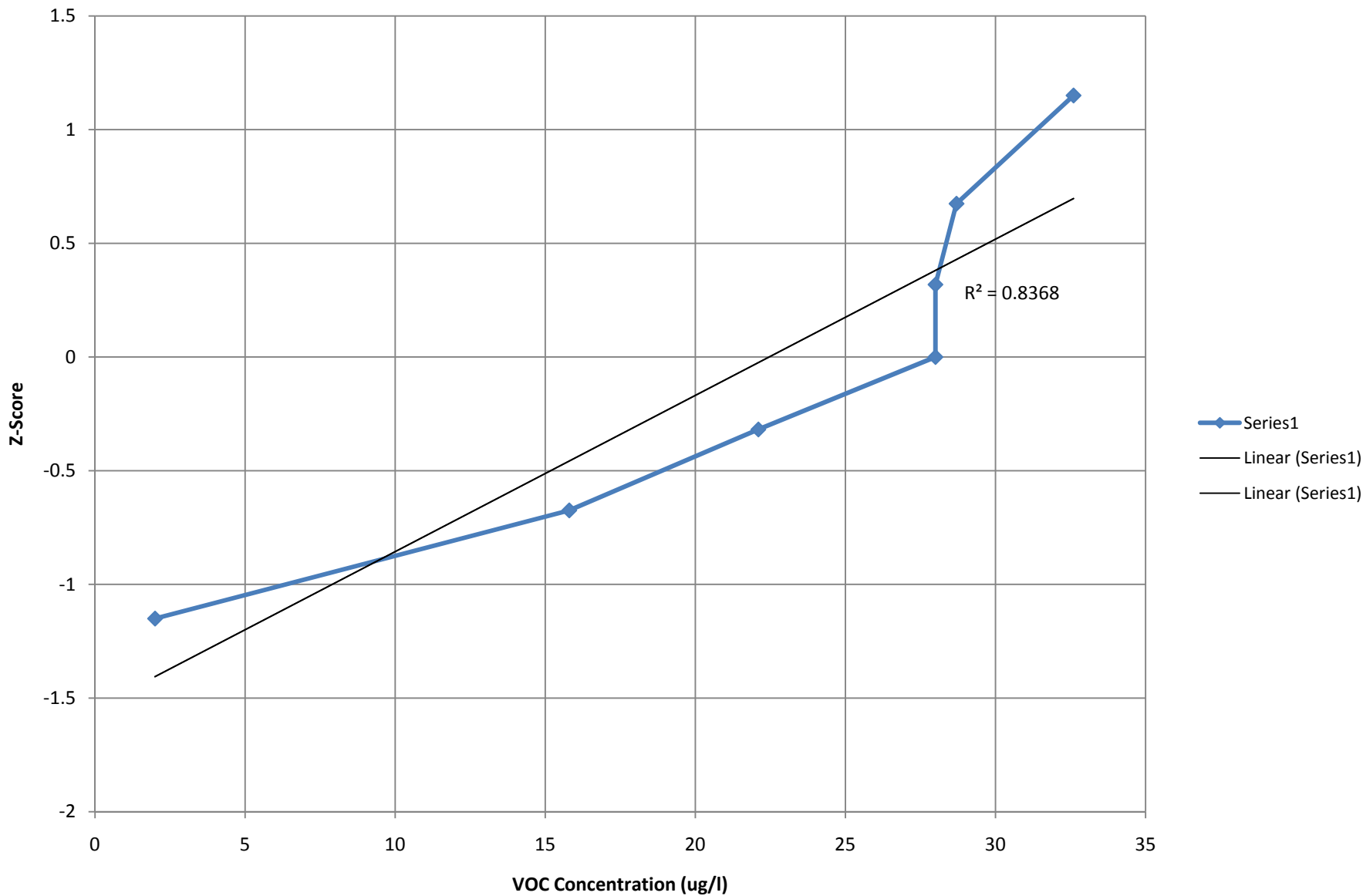
**Notes:**

: Total VOC concentration does not include methylene chloride

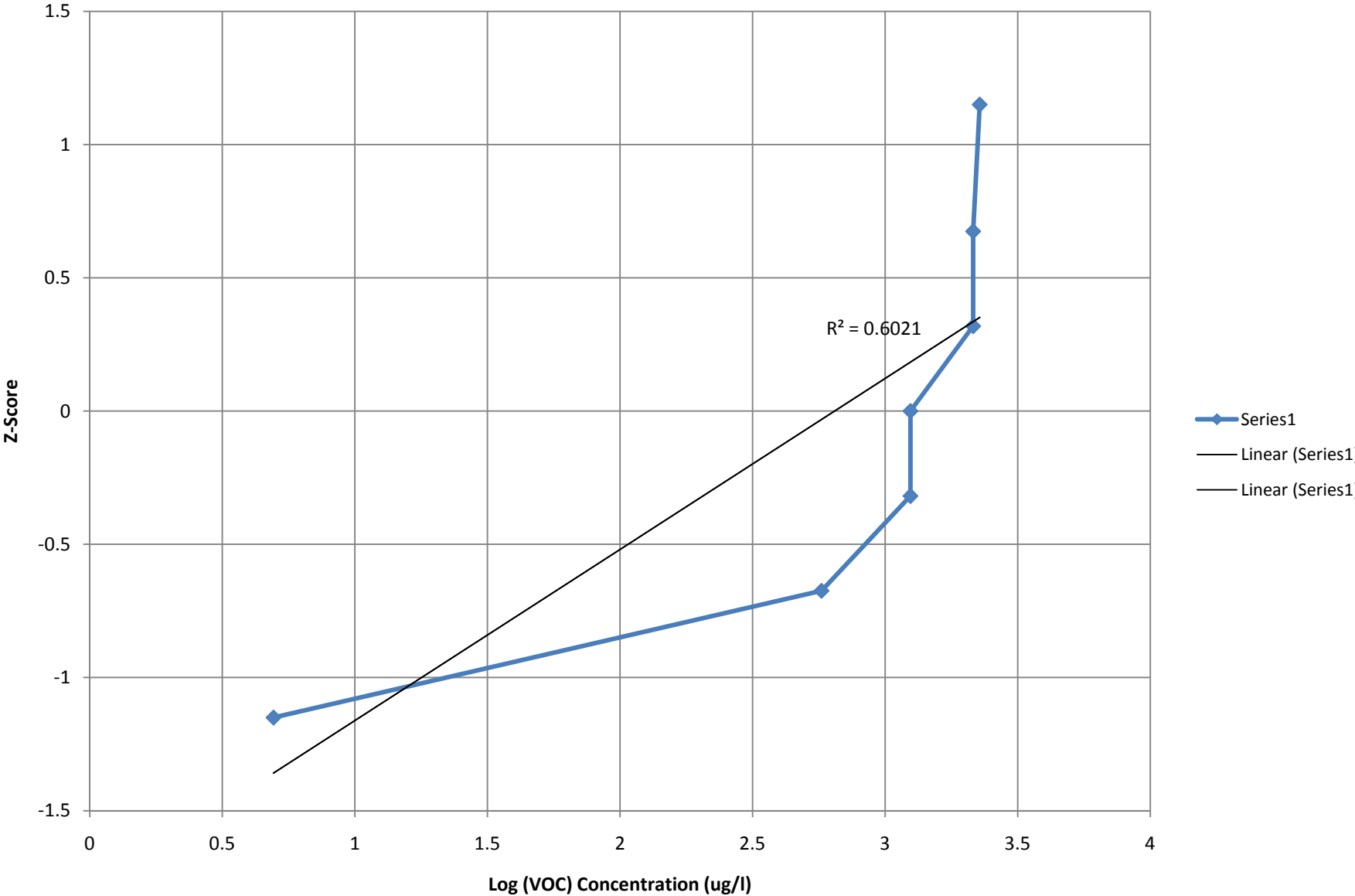
# Well BP-9B Total VOCs Over Time



# Well BP-9B Probability Plot



# Well BP-9B Logarithmic Probability Plot





**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-14B**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs
3/4/11	31.6
8/30/10	100.6
3/19/10	198.8
9/4/09	0*
3/16/09	324.8
10/3/08	407.2
3/7/08	624.1
1/8/08	798

\*: Outlying concentration not included in statistical analysis

*Basic Statistical Calculations*

Average (ug/l):	355.0142857
Median (ug/l):	324.8
Standard Deviation (ug/l):	278.6892082
Upper Limit (ug/l):	901.2451338
Lower Limit (ug/l):	-191.2165623
Slope (ug/l/yr):	-215.7307179

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/4/11	31.6	0.125	-1.15034938
2	8/30/10	100.6	0.25	-0.67448975
3	3/19/10	198.8	0.375	-0.318639364
4	3/16/09	324.8	0.5	-1.39214E-16
5	10/3/08	407.2	0.625	0.318639364
6	3/7/08	624.1	0.75	0.67448975
7	1/8/08	798	0.875	1.15034938

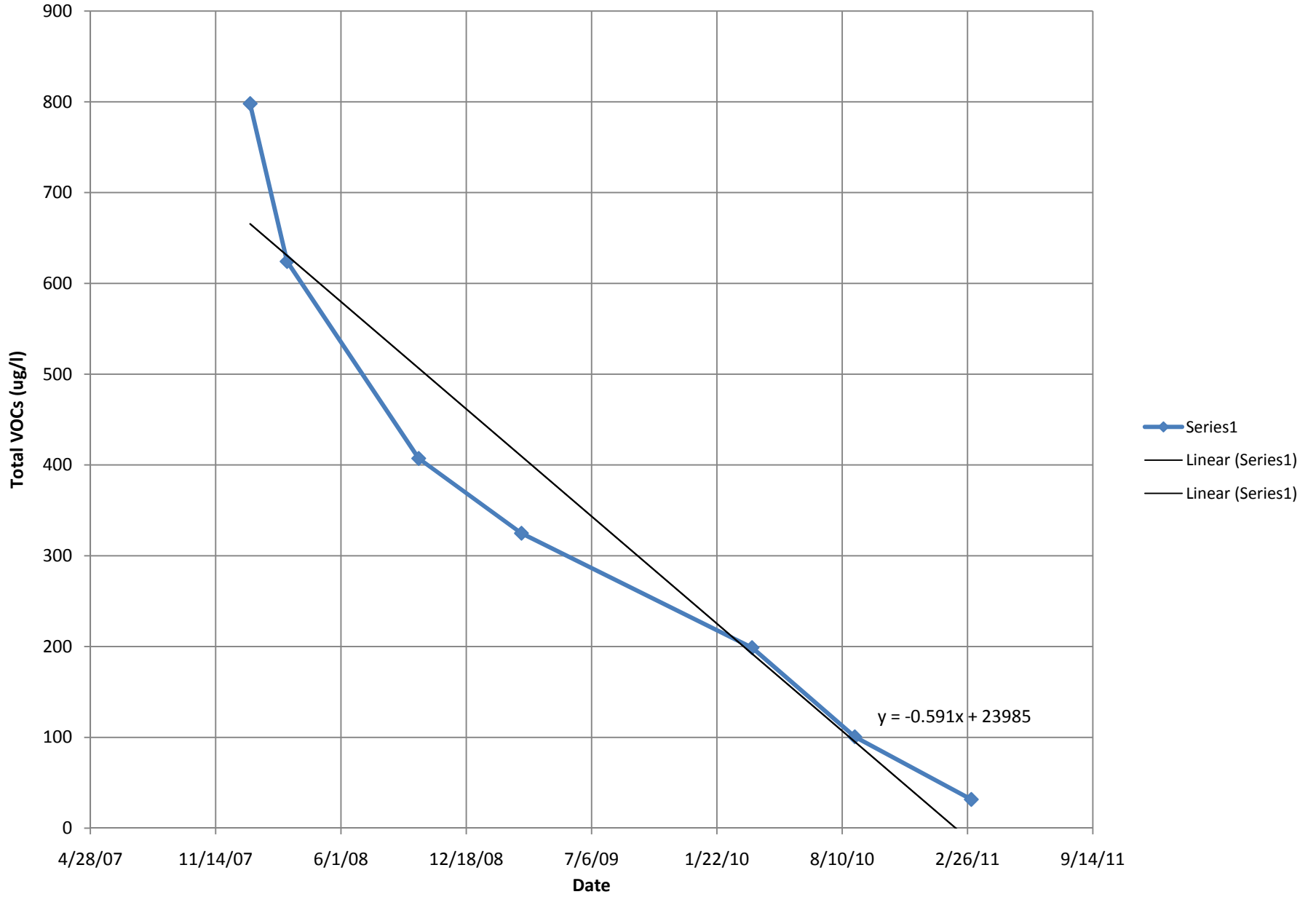
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/4/11	31.6	3.453157121	0.125	-1.15034938
2	8/30/10	100.6	4.611152258	0.25	-0.67448975
3	3/19/10	198.8	5.292299294	0.375	-0.318639364
4	3/16/09	324.8	5.783209608	0.5	-1.39214E-16
5	10/3/08	407.2	6.009304465	0.625	0.318639364
6	3/7/08	624.1	6.436310612	0.75	0.67448975
7	1/8/08	798	6.682108597	0.875	1.15034938

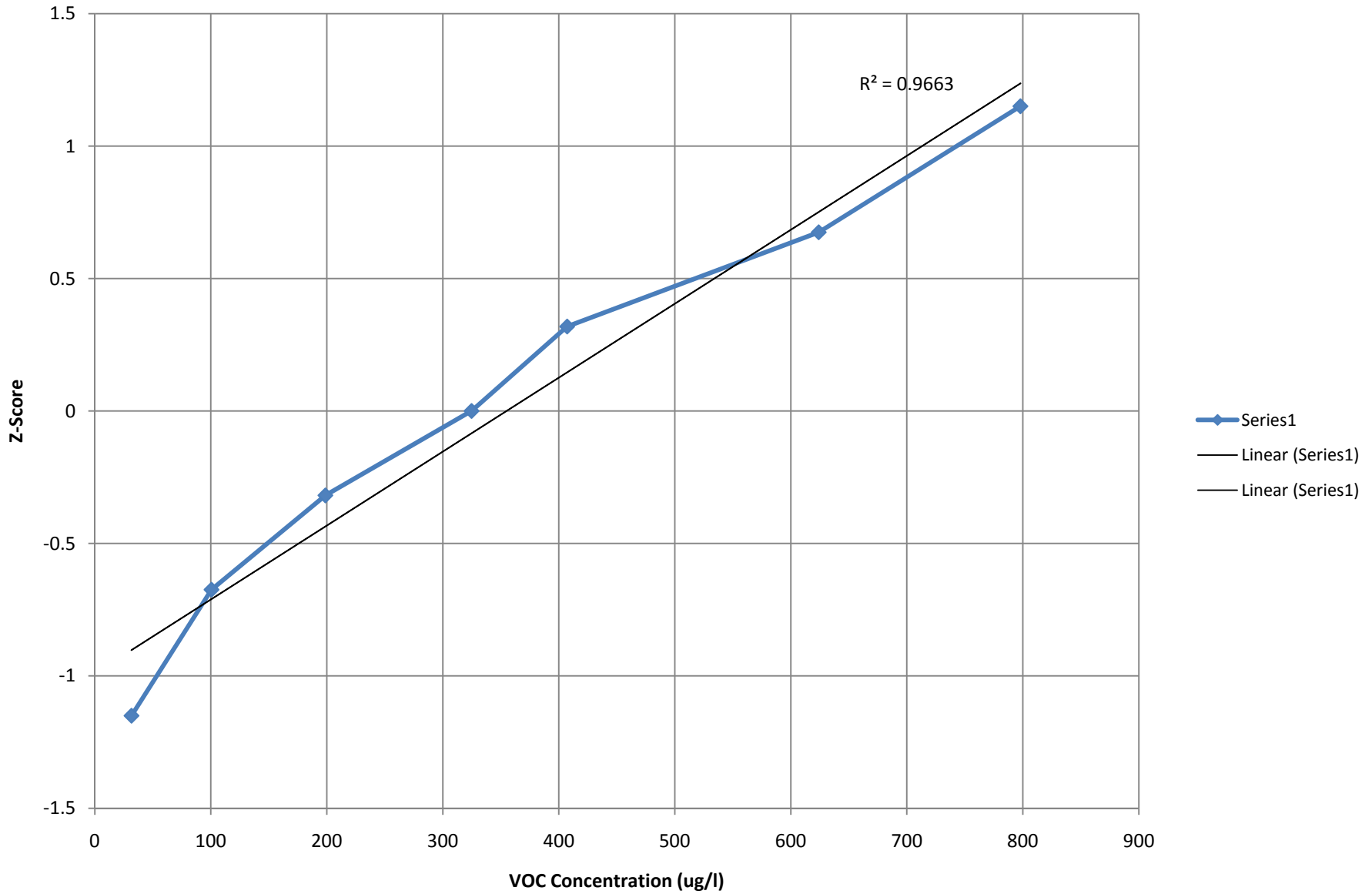
Notes:

: Total VOC concentration does not include methylene chloride

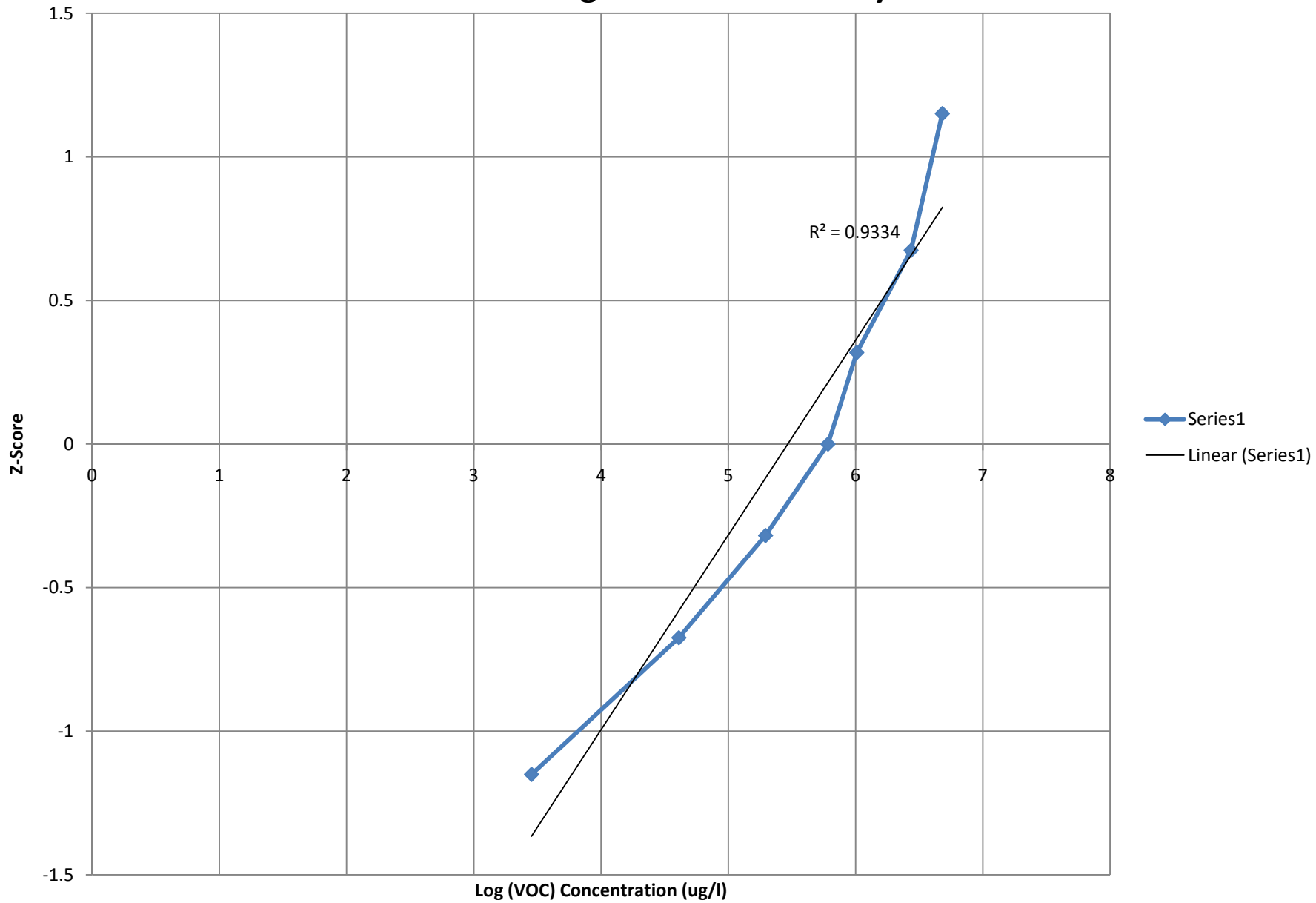
# Well BP-14B Total VOCs Over Time



# Well BP-14B Probability Plot



# Well BP-14B Logarithmic Probability Plot



**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-14C**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/4/11	4.1
10/3/08	16.5
3/7/08	16.9
1/8/08	0*
9/21/07	18.9
6/29/07	14.2
3/29/07	7.2
1/10/07	12.2

\*: Outlying concentration not included in statistical analysis

*Basic Statistical Calculations*

Average (ug/l):	12.85714286
Median (ug/l):	14.2
Standard Deviation (ug/l):	5.432266913
Upper Limit (ug/l):	23.50438601
Lower Limit (ug/l):	2.209899708
Slope (ug/l/yr):	-1.783182629

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/4/11	4.1	0.125	-1.15034938
2	3/29/07	7.2	0.25	-0.67448975
3	1/10/07	12.2	0.375	-0.318639364
4	6/29/07	14.2	0.5	-1.39214E-16
5	10/3/08	16.5	0.625	0.318639364
6	3/7/08	16.9	0.75	0.67448975
7	9/21/07	18.9	0.875	1.15034938

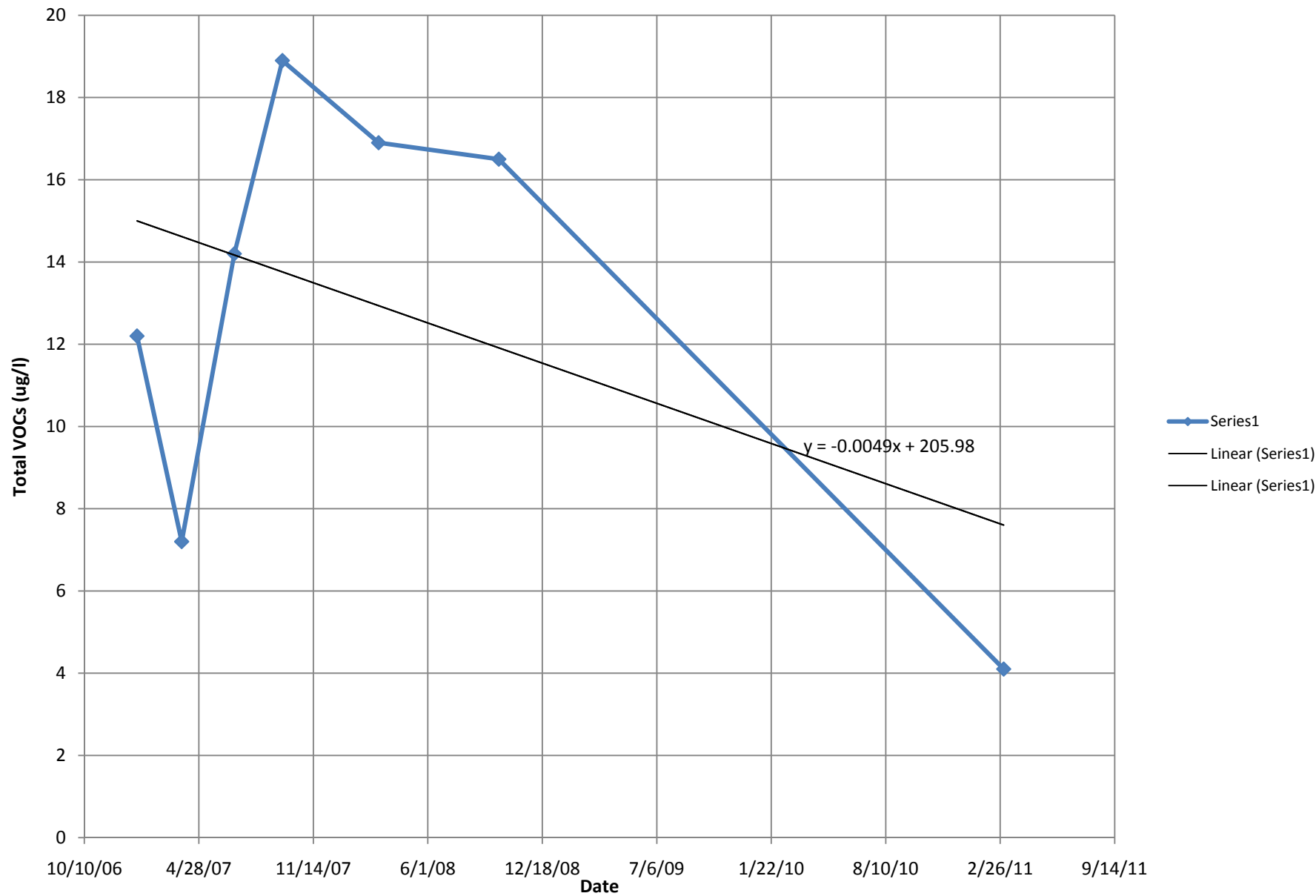
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/4/11	4.1	1.410986974	0.125	-1.15034938
2	3/29/07	7.2	1.974081026	0.25	-0.67448975
3	1/10/07	12.2	2.501435952	0.375	-0.318639364
4	6/29/07	14.2	2.653241965	0.5	-1.39214E-16
5	10/3/08	16.5	2.803360381	0.625	0.318639364
6	3/7/08	16.9	2.827313622	0.75	0.67448975
7	9/21/07	18.9	2.939161922	0.875	1.15034938

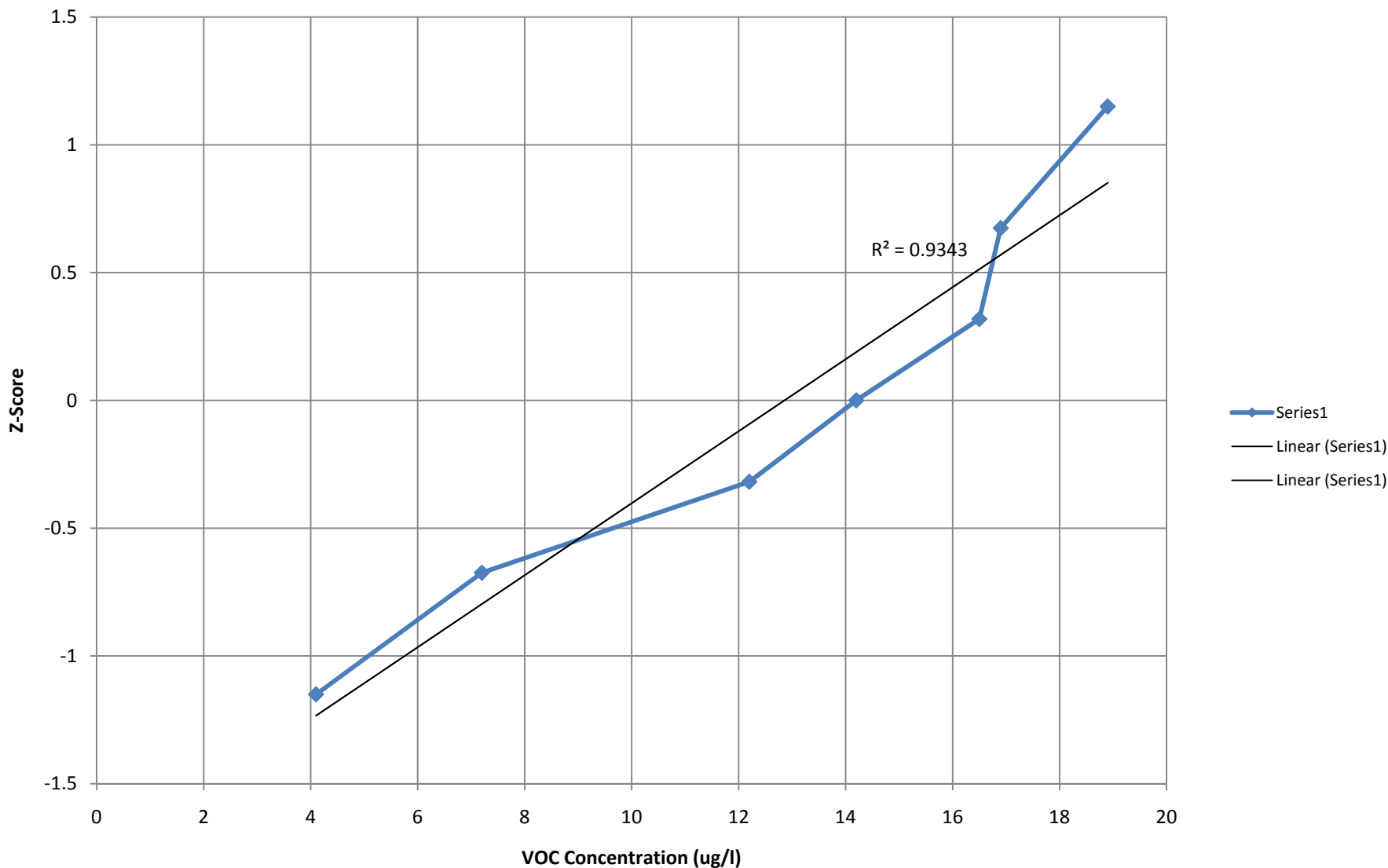
Notes:

4.1 : Total VOC concentration does not include methylene chloride

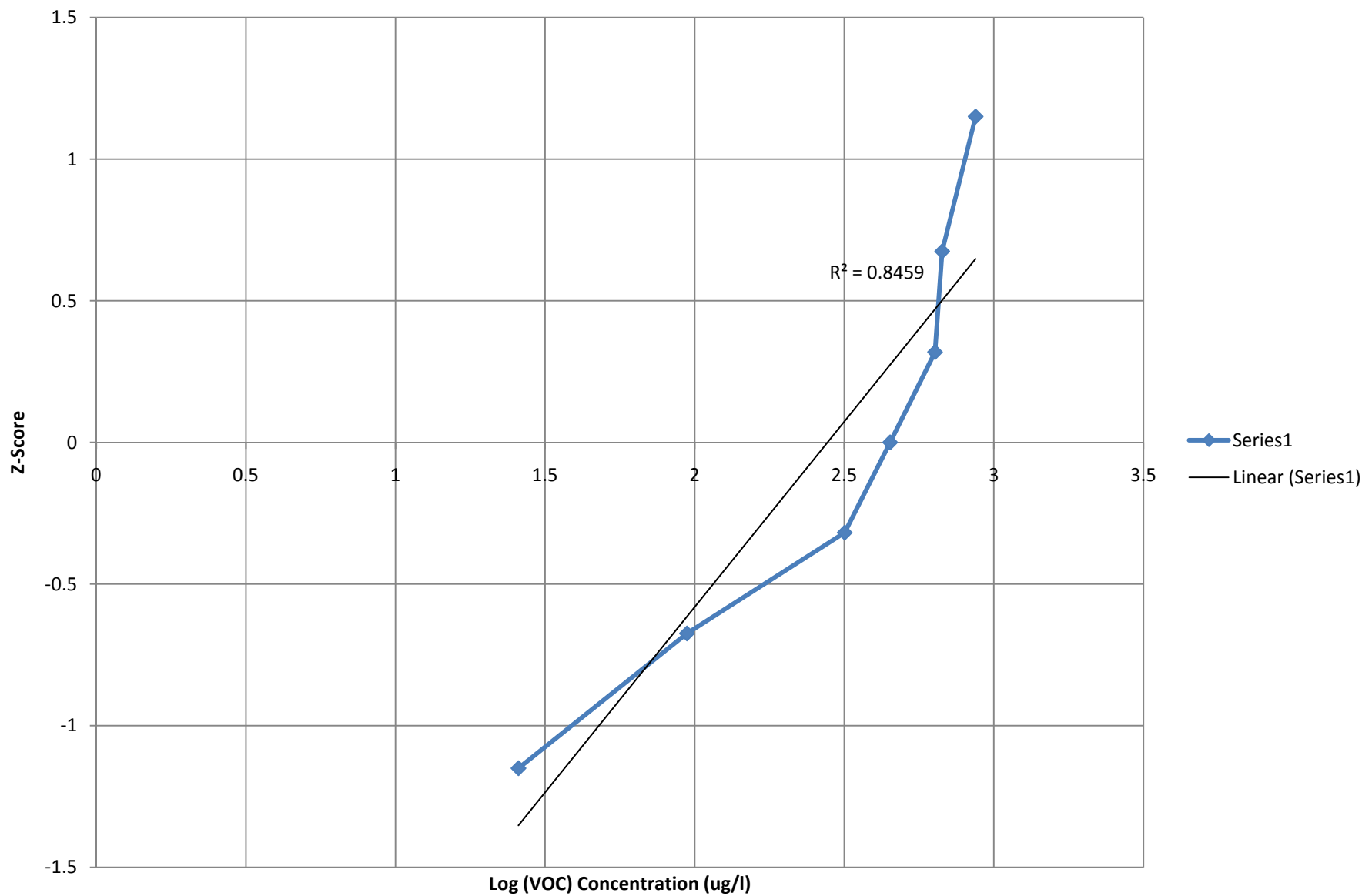
# Well BP-14C Total VOCs Over Time



# Well BP-14C Probability Plot



# Well BP-14C Logarithmic Probability Plot





**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL BP-15B**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
3/7/11	154.3
8/31/10	381.2
3/18/10	314
9/4/09	306.9
3/10/09	280.1
9/29/08	238.3
3/11/08	230.8
12/17/07	312.9

*Basic Statistical Calculations*

Average (ug/l):	277.3125
Median (ug/l):	293.5
Standard Deviation (ug/l):	68.77053849
Upper Limit (ugl):	412.1027554
Lower Limit (ugl):	142.5222446
Slope (ug/l/yr):	-2.086546491

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	3/7/11	154.3	0.111111111	-1.220640349
2	3/11/08	230.8	0.222222222	-0.764709674
3	9/29/08	238.3	0.333333333	-0.430727299
4	3/10/09	280.1	0.444444444	-0.139710299
5	9/4/09	306.9	0.555555556	0.139710299
6	12/17/07	312.9	0.666666667	0.430727299
7	3/18/10	314	0.777777778	0.764709674
8	8/31/10	381.2	0.888888889	1.220640349

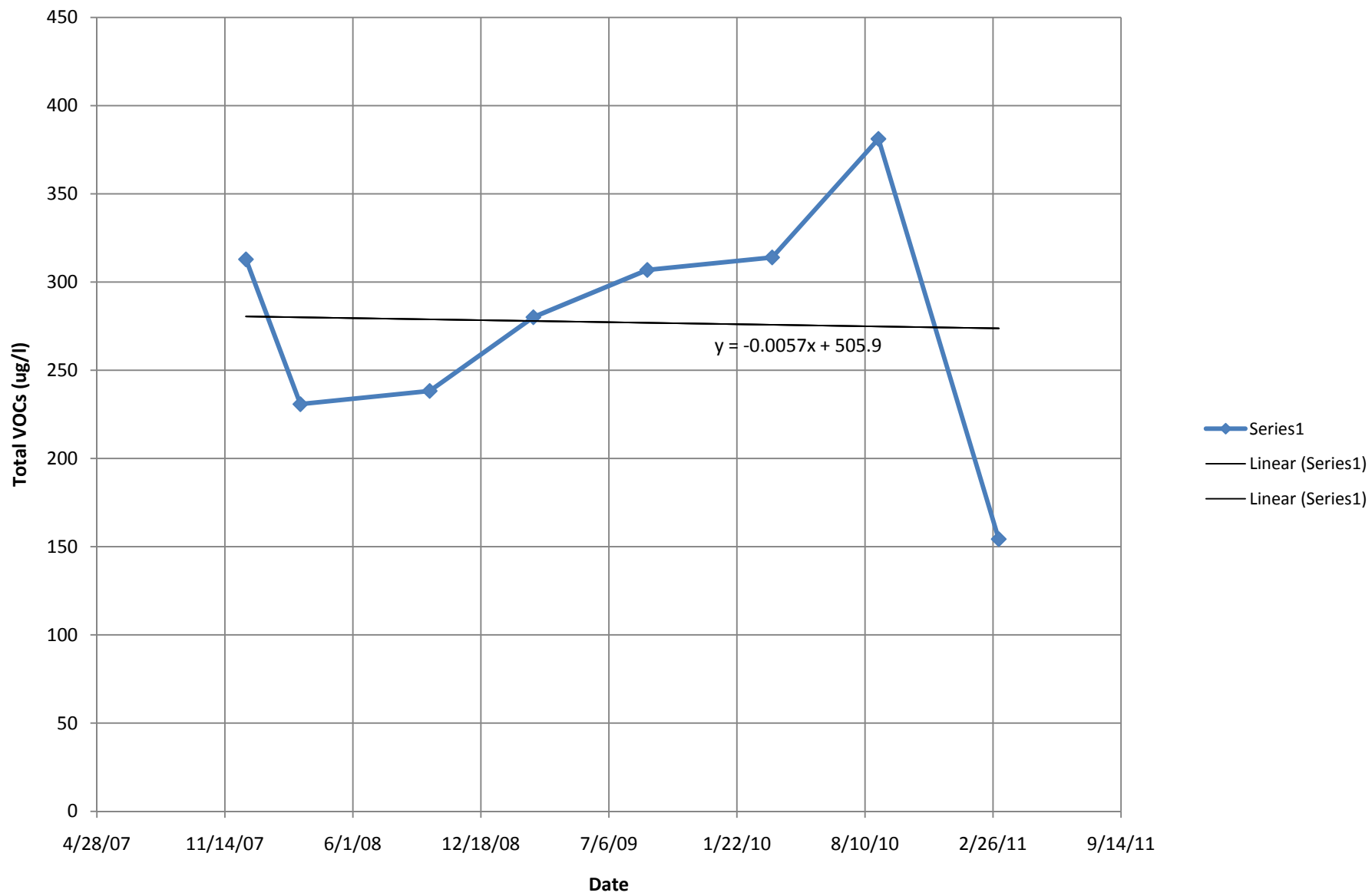
*Logarithmic Probability Pot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	3/7/11	154.3	5.038898759	0.111111111	-1.22064
2	3/11/08	230.8	5.441551535	0.222222222	-0.76471
3	9/29/08	238.3	5.473530384	0.333333333	-0.43073
4	3/10/09	280.1	5.635146682	0.444444444	-0.13971
5	9/4/09	306.9	5.726521962	0.555555556	0.13971
6	12/17/07	312.9	5.745883651	0.666666667	0.430727
7	3/18/10	314	5.749392986	0.777777778	0.76471
8	8/31/10	381.2	5.943324172	0.888888889	1.22064

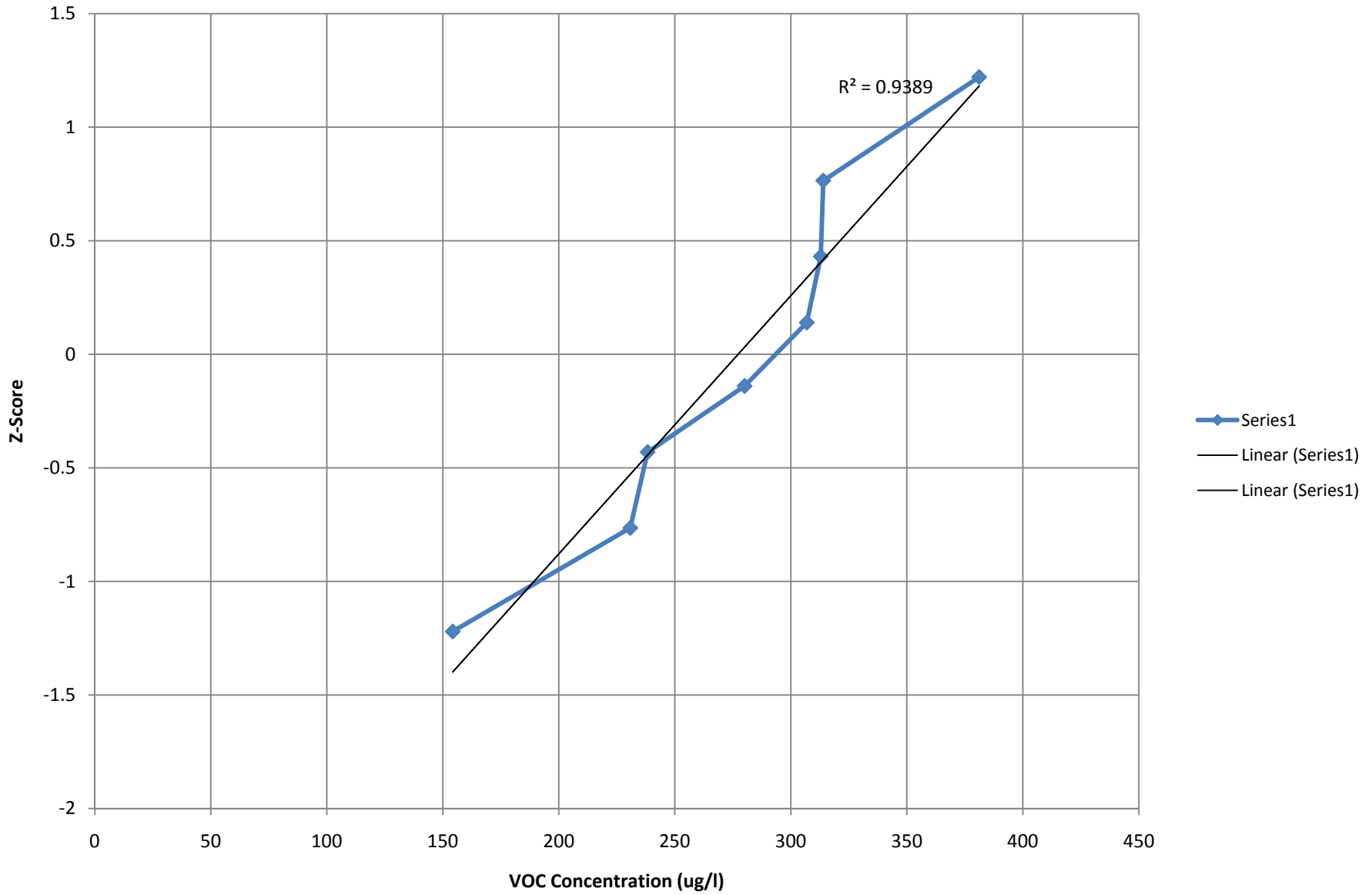
**Notes:**

█ : Total VOC concentration does not include methylene chloride

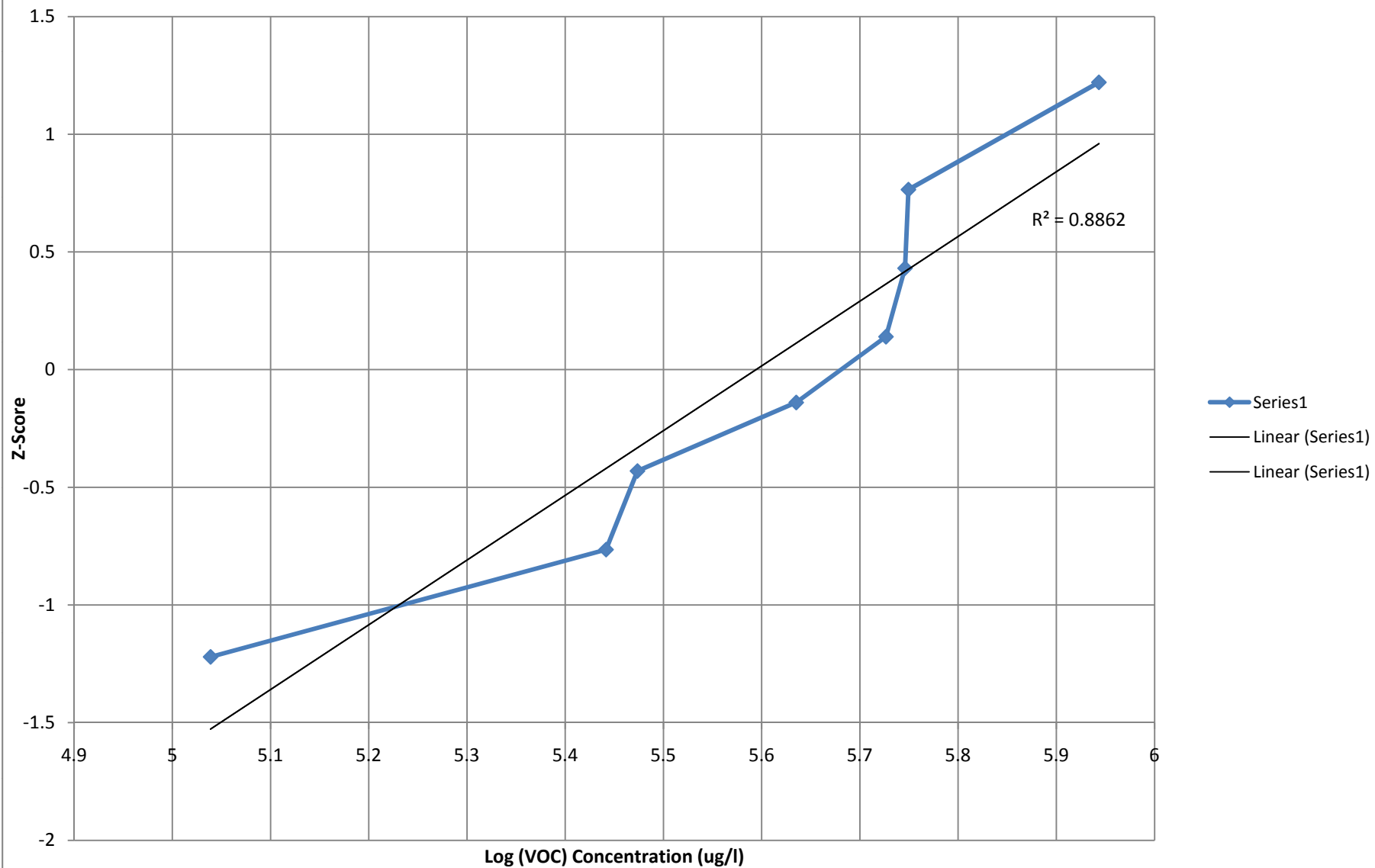
# Well BP-15B Total VOCs Over Time



# Well BP-15B Probability Plot



# Well BP-15B Logarithmic Probability Plot



**NASSAU COUNTY DEPARTMENT OF PUBLIC WORKS  
FIREMAN'S TRAINING CENTER  
OLD BETHPAGE, NEW YORK  
DETAILS OF STATISTICAL ANALYSIS  
WELL OBV-1C**

*Total VOCs Over Past 8 Sampling Events*

Date	Total VOCs (ug/l)
9/11/08	14.6
12/13/07	18.1
9/25/07	15.1
6/25/07	16.1
4/5/07	9.7
12/29/06	<b>31.5*</b>
9/26/06	13.4
6/21/06	13.9

\*: Outlying concentration not included in statistical analysis

*Basic Statistical Calculations*

Average (ug/l):	14.41428571
Median (ug/l);	14.6
Standard Deviation (ug/l):	2.596426115
Upper Limit (ug/l):	19.5032809
Lower Limit (ug/l):	9.325290529
Slope (ug/l/yr):	1.312270693

*Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Cumulative Probability	z-score
1	4/5/07	9.7	0.125	-1.15034938
2	9/26/06	13.4	0.25	-0.67448975
3	6/21/06	13.9	0.375	-0.318639364
4	9/11/08	14.6	0.5	-1.39214E-16
5	9/25/07	15.1	0.625	0.318639364
6	6/25/07	16.1	0.75	0.67448975
7	12/13/07	18.1	0.875	1.15034938

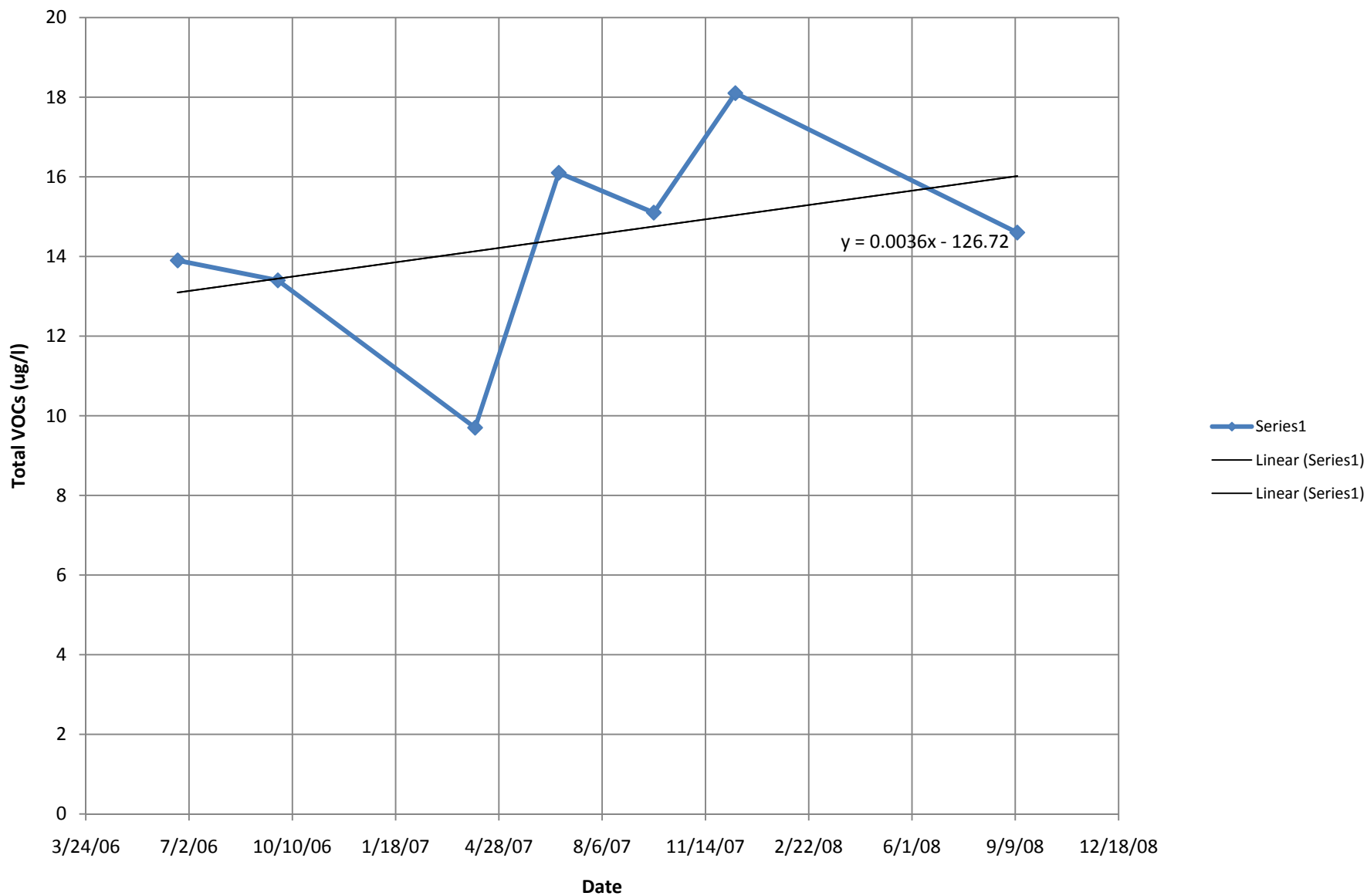
*Logarithmic Probability Plot Statistical Calculations*

position	Date	Total VOCs (ug/l)	Log of Concentration	Cumulative Probability	z-score
1	4/5/07	9.7	2.272125886	0.125	-1.15035
2	9/26/06	13.4	2.595254707	0.25	-0.67449
3	6/21/06	13.9	2.63188884	0.375	-0.31864
4	9/11/08	14.6	2.681021529	0.5	-1.4E-16
5	9/25/07	15.1	2.714694744	0.625	0.318639
6	6/25/07	16.1	2.778819272	0.75	0.67449
7	12/13/07	18.1	2.895911938	0.875	1.150349

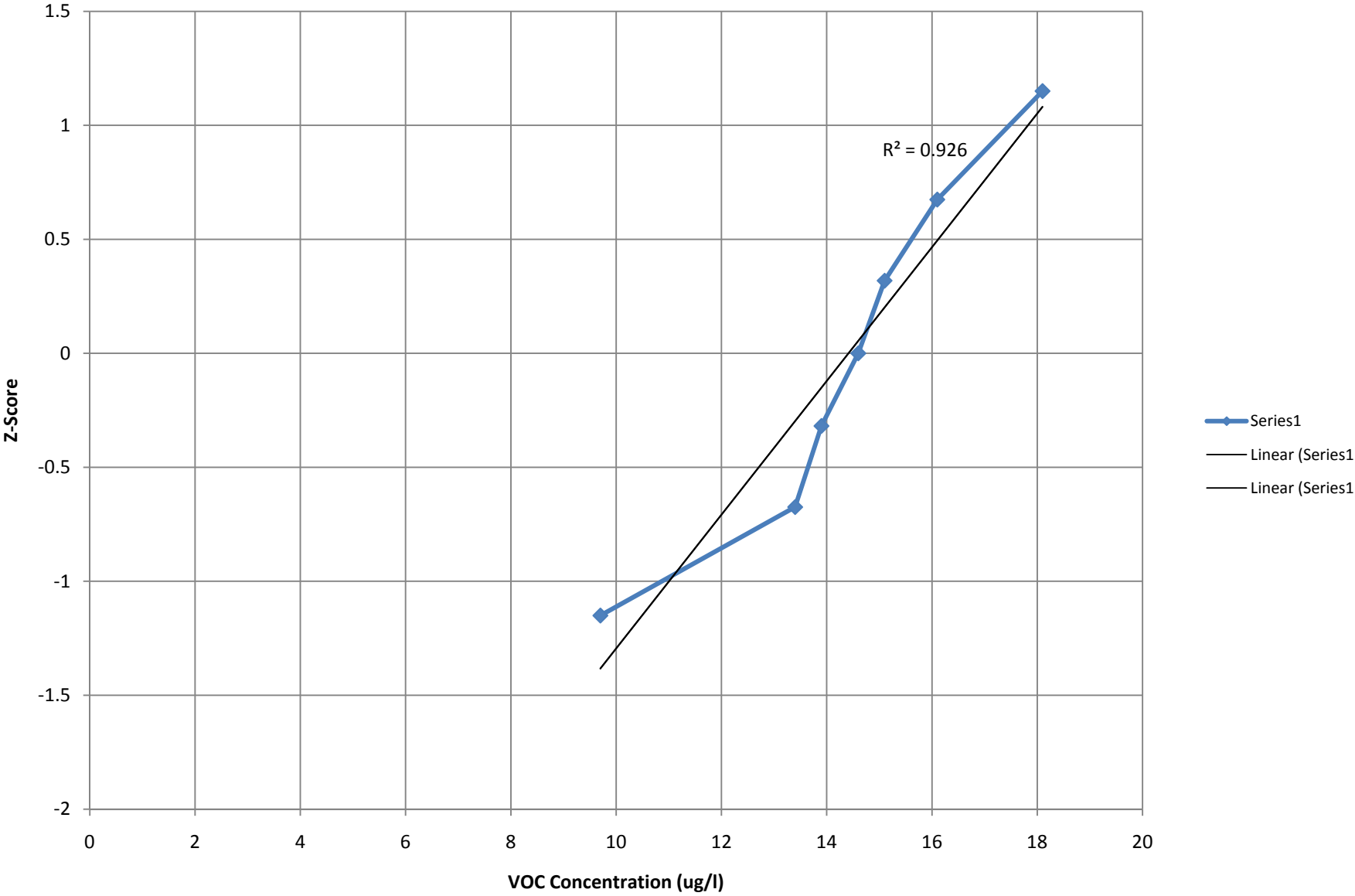
**Notes:**

: Total VOC concentration does not include methylene chloride

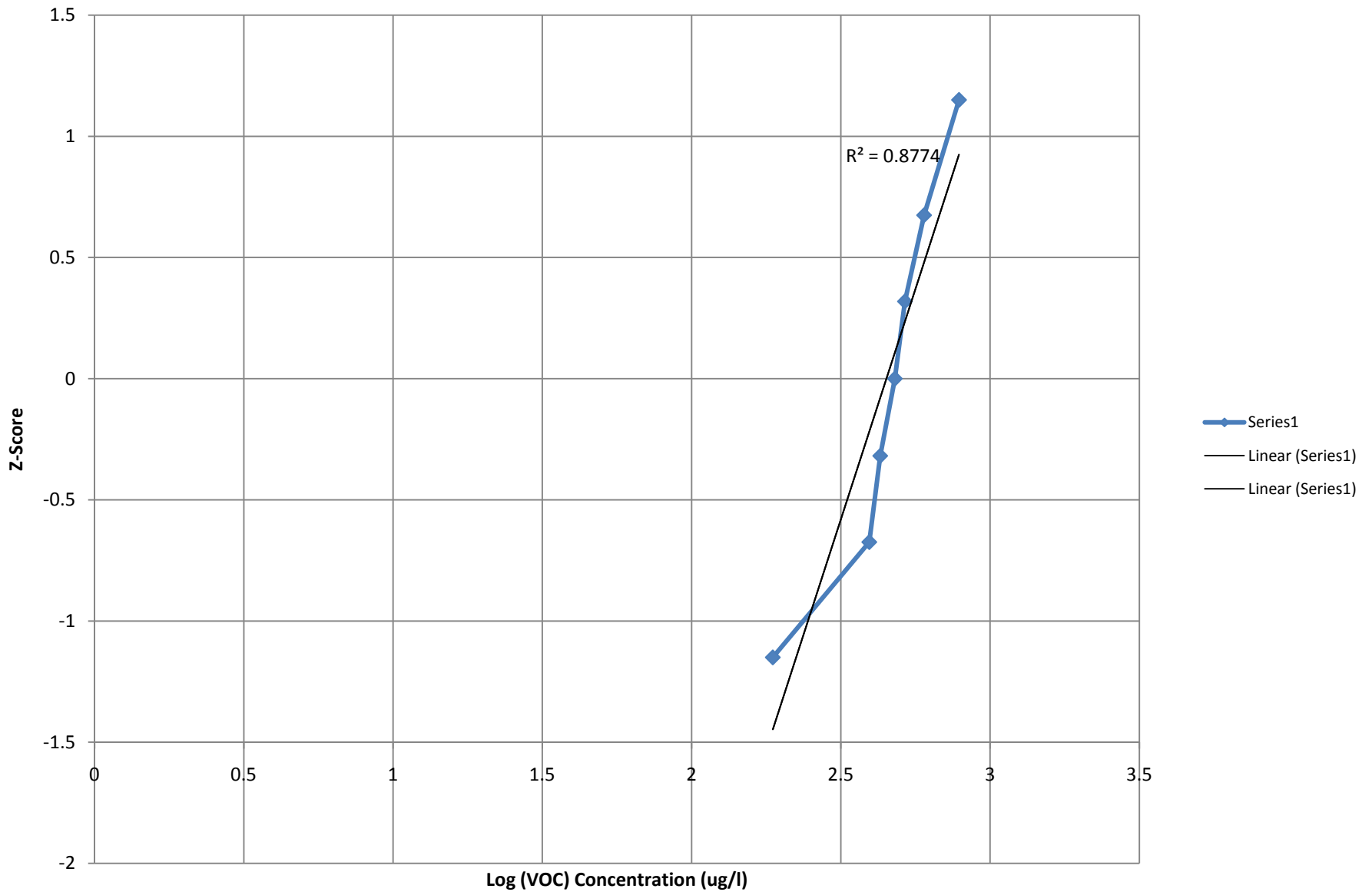
# Well OBV-1C Total VOCs Over Time



# Well OBV-1C Probability Plot



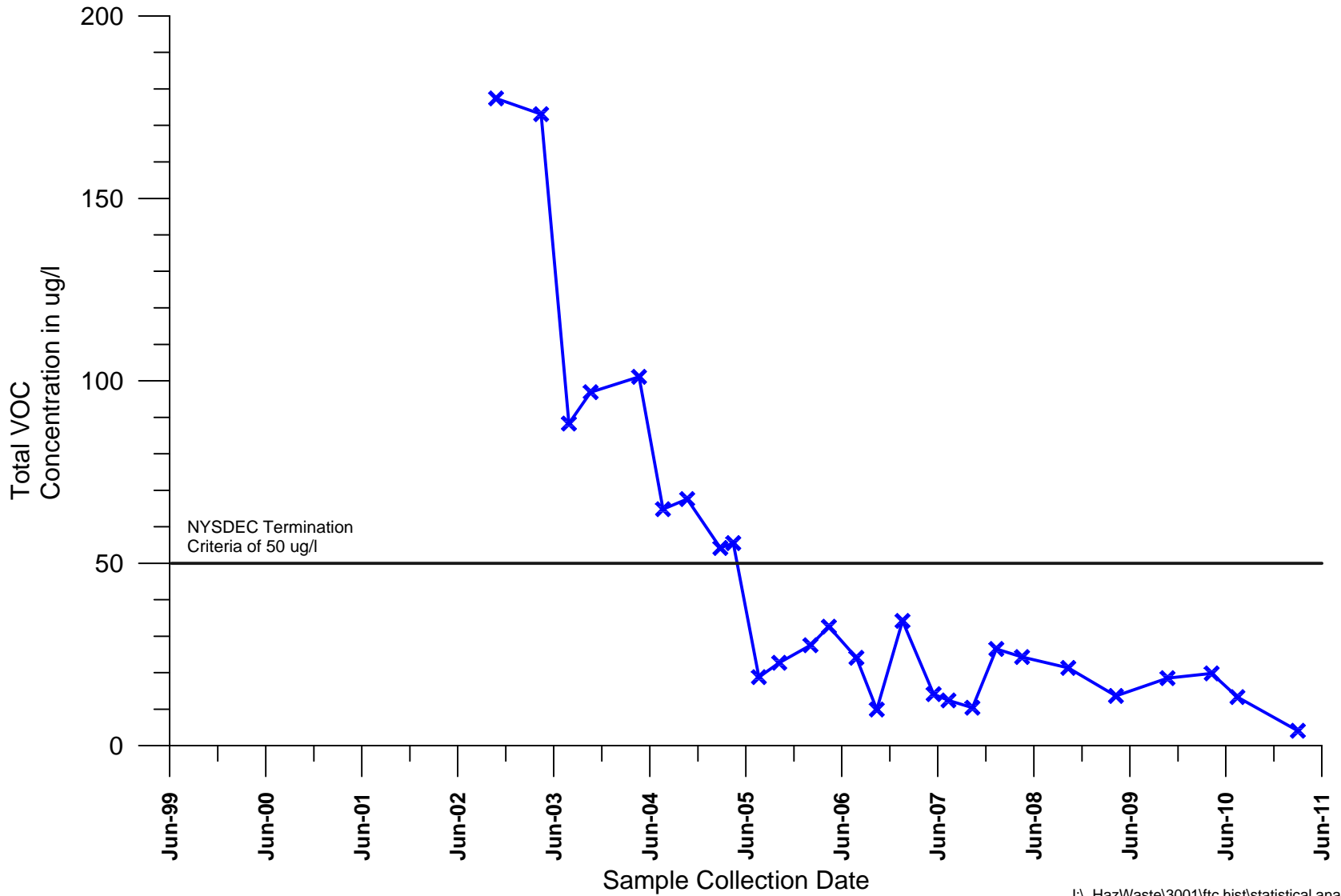
# Well OBV-1C Logarithmic Probability Plot



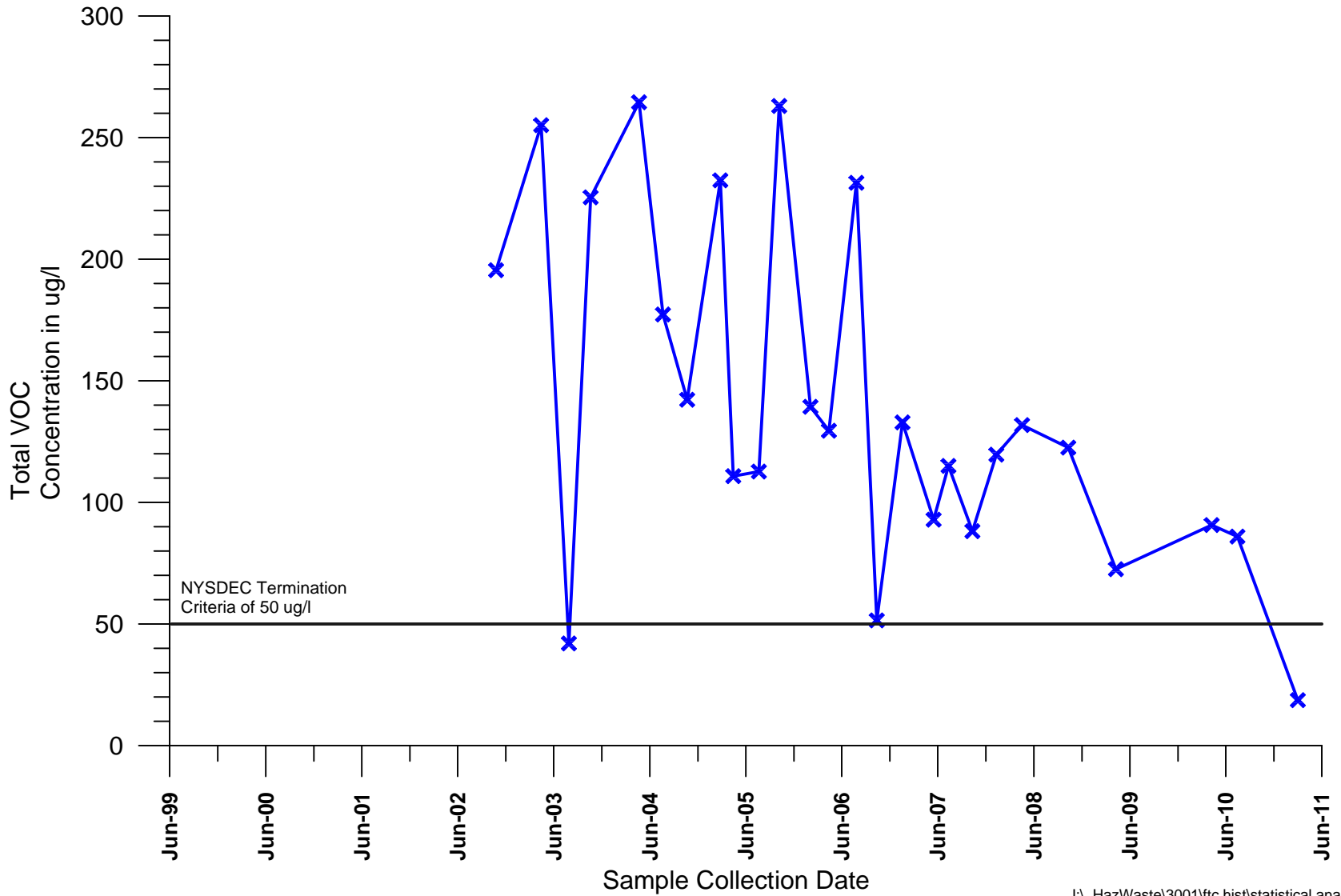


**APPENDIX D**

**TOTAL VOC CONCENTRATION TRENDS  
FOR SELECT MONITORING WELLS**

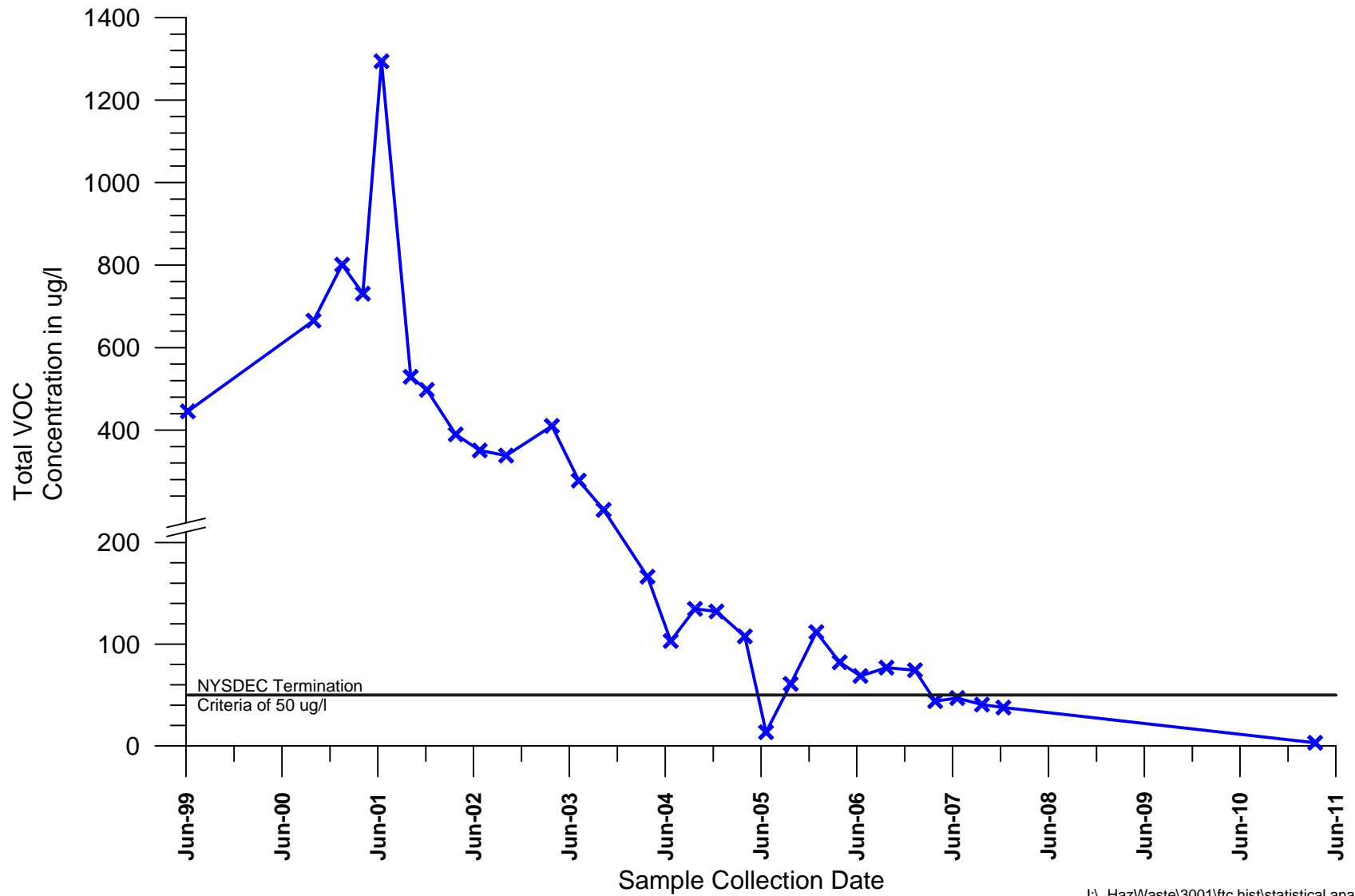


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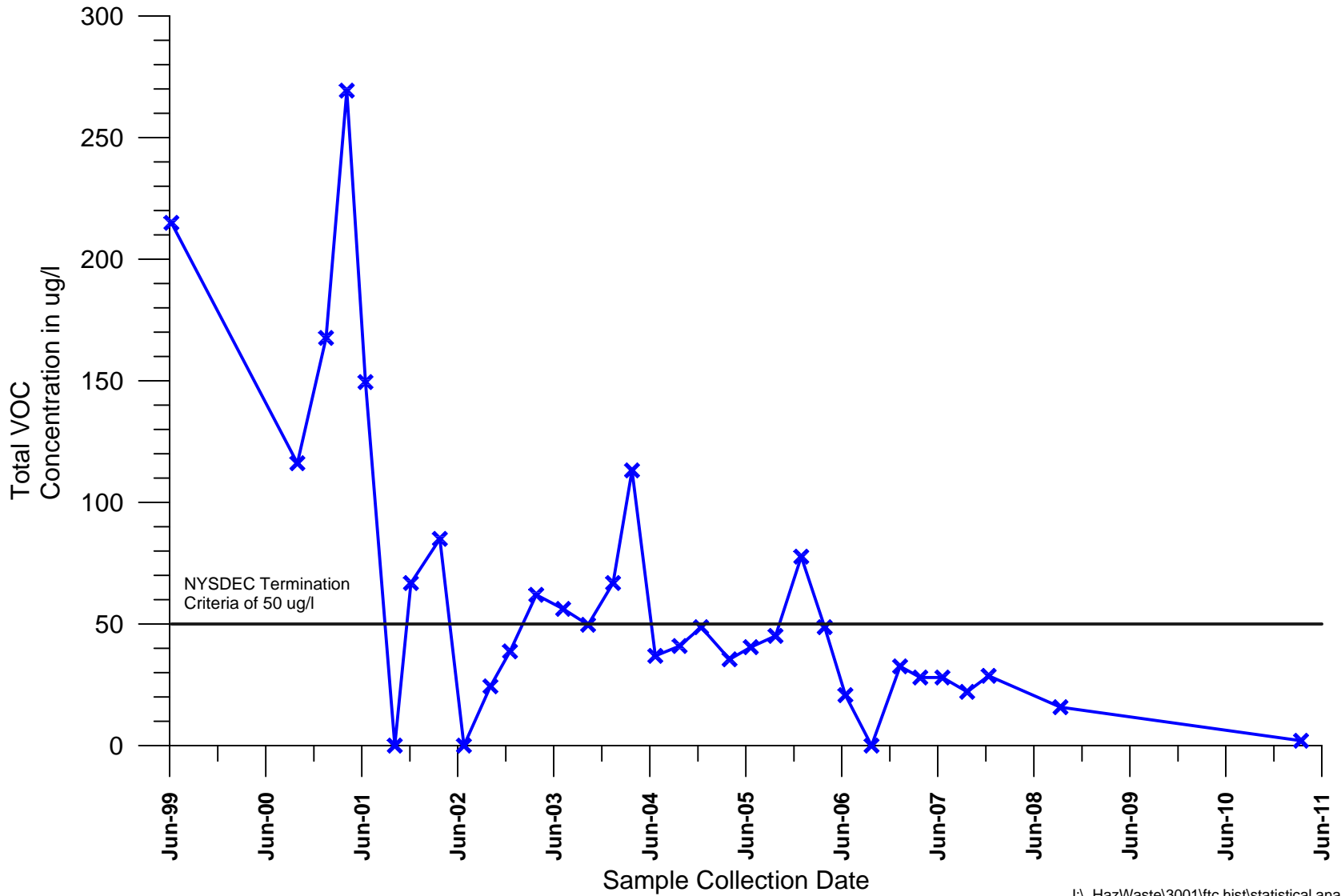


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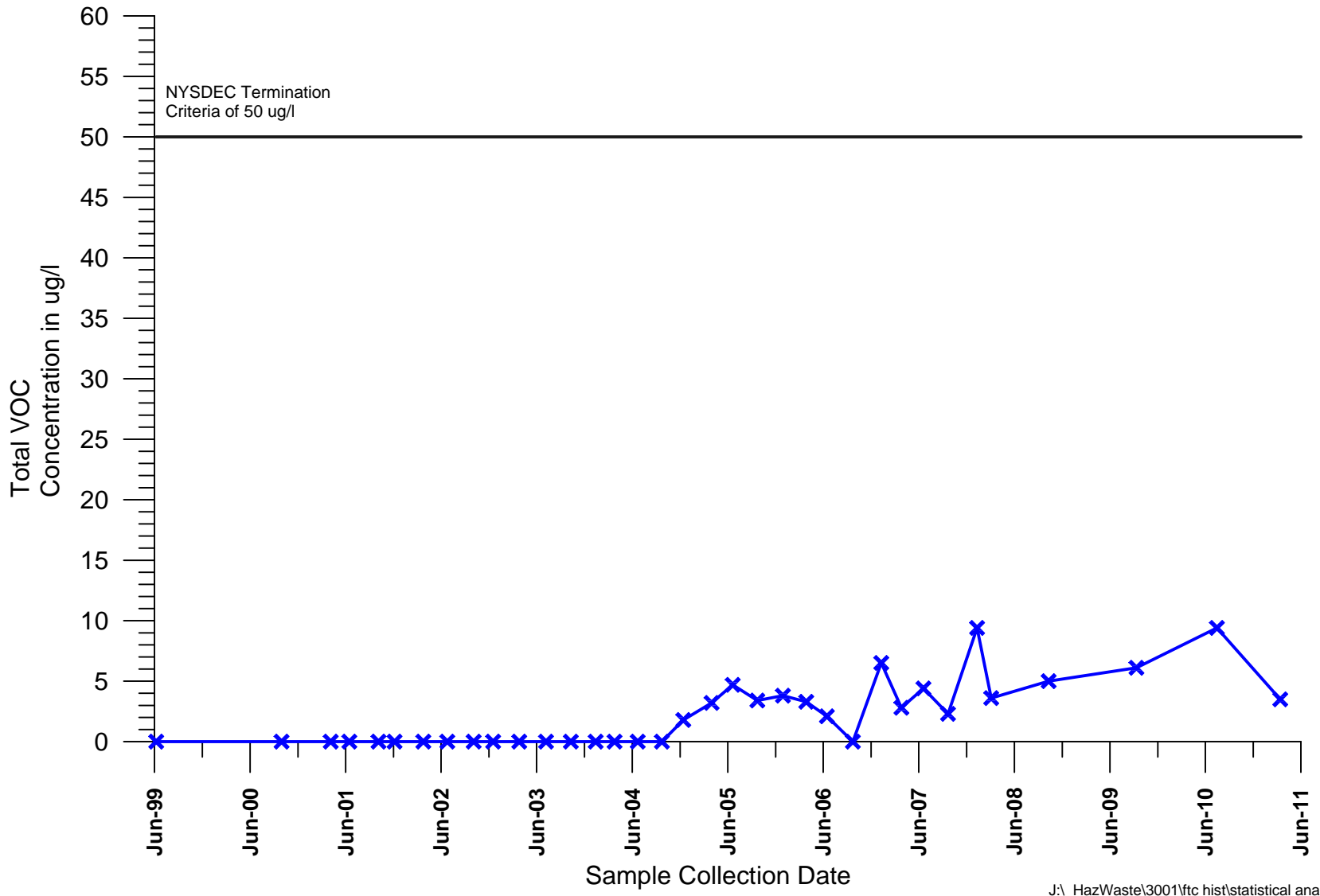




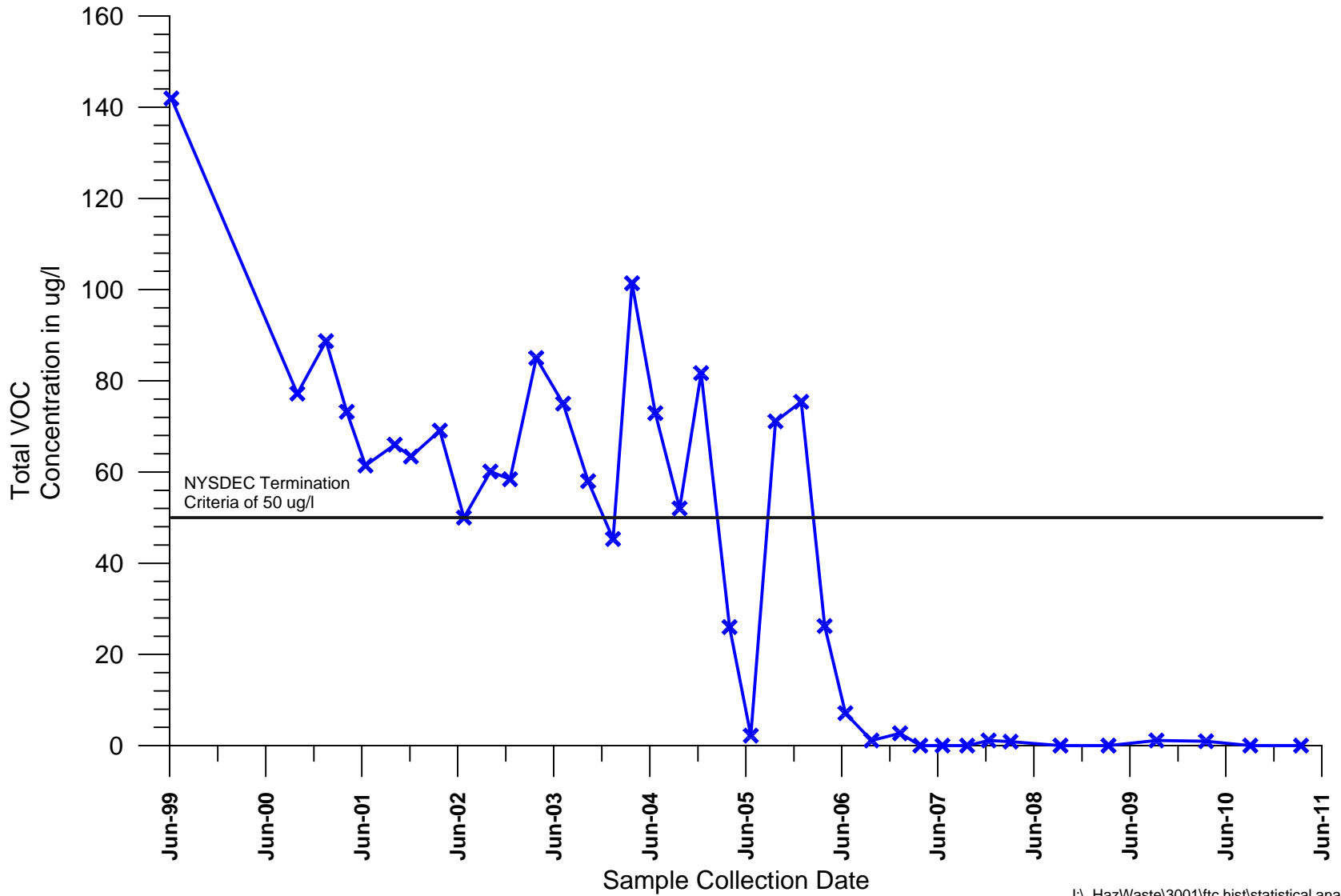
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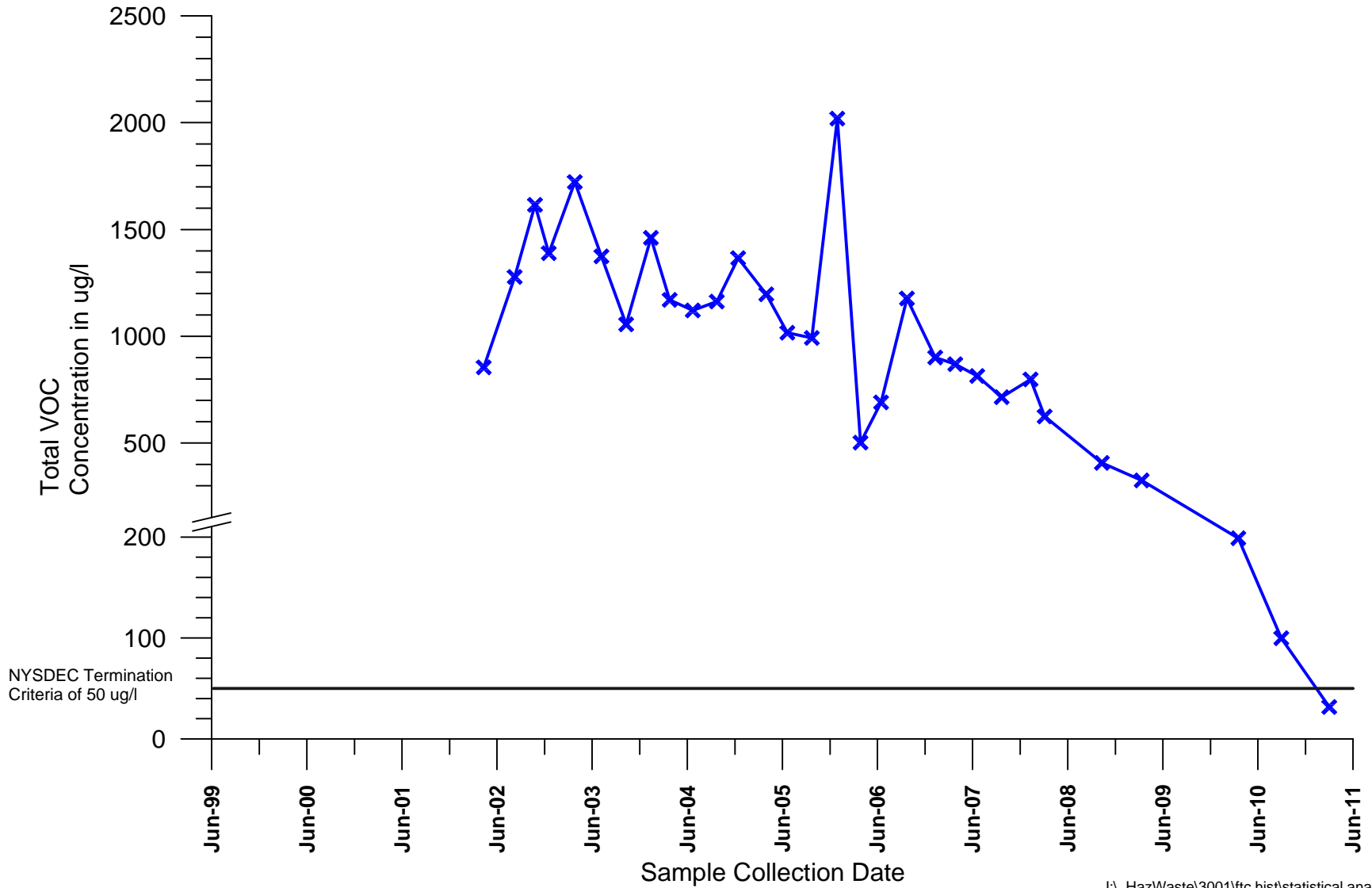


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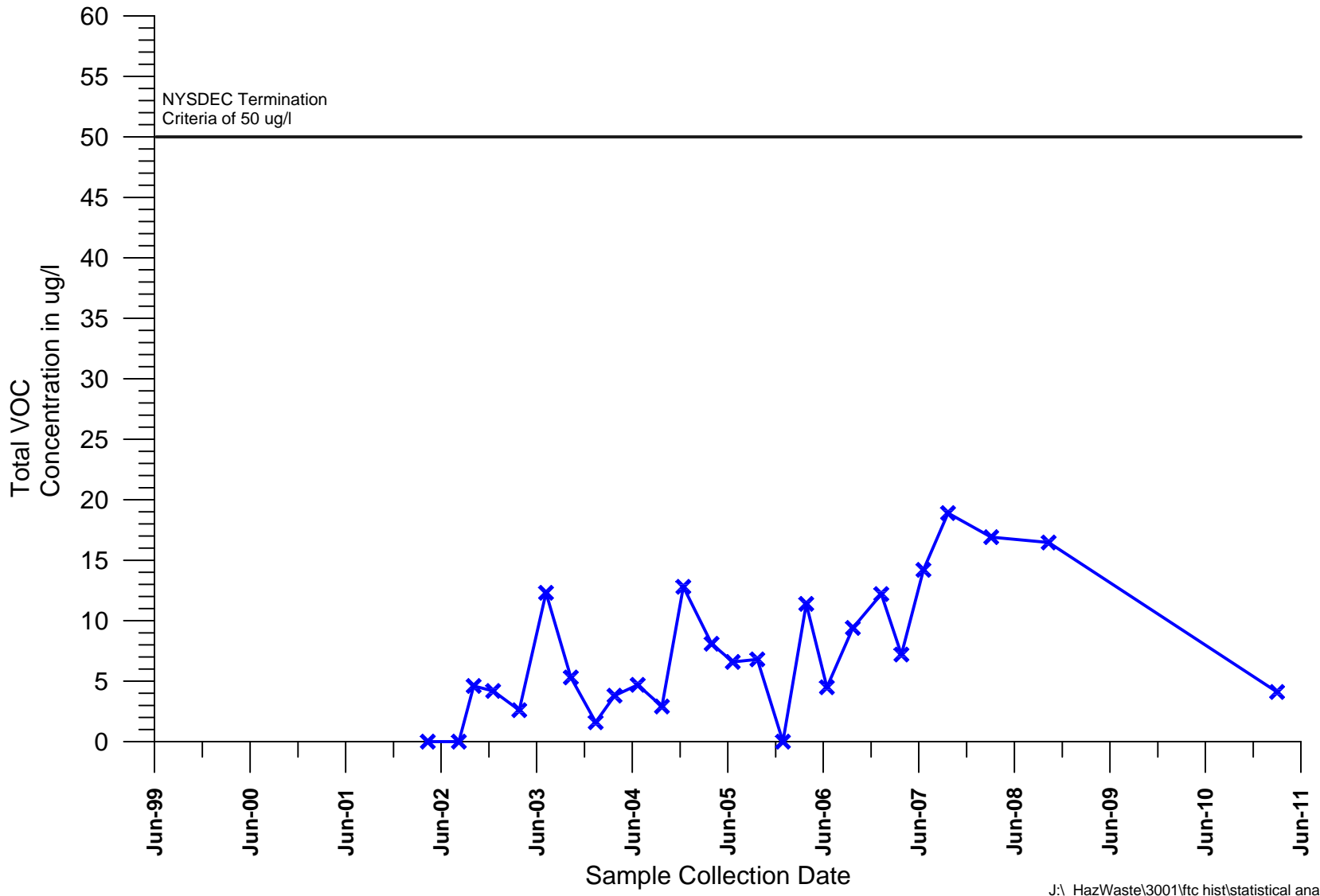


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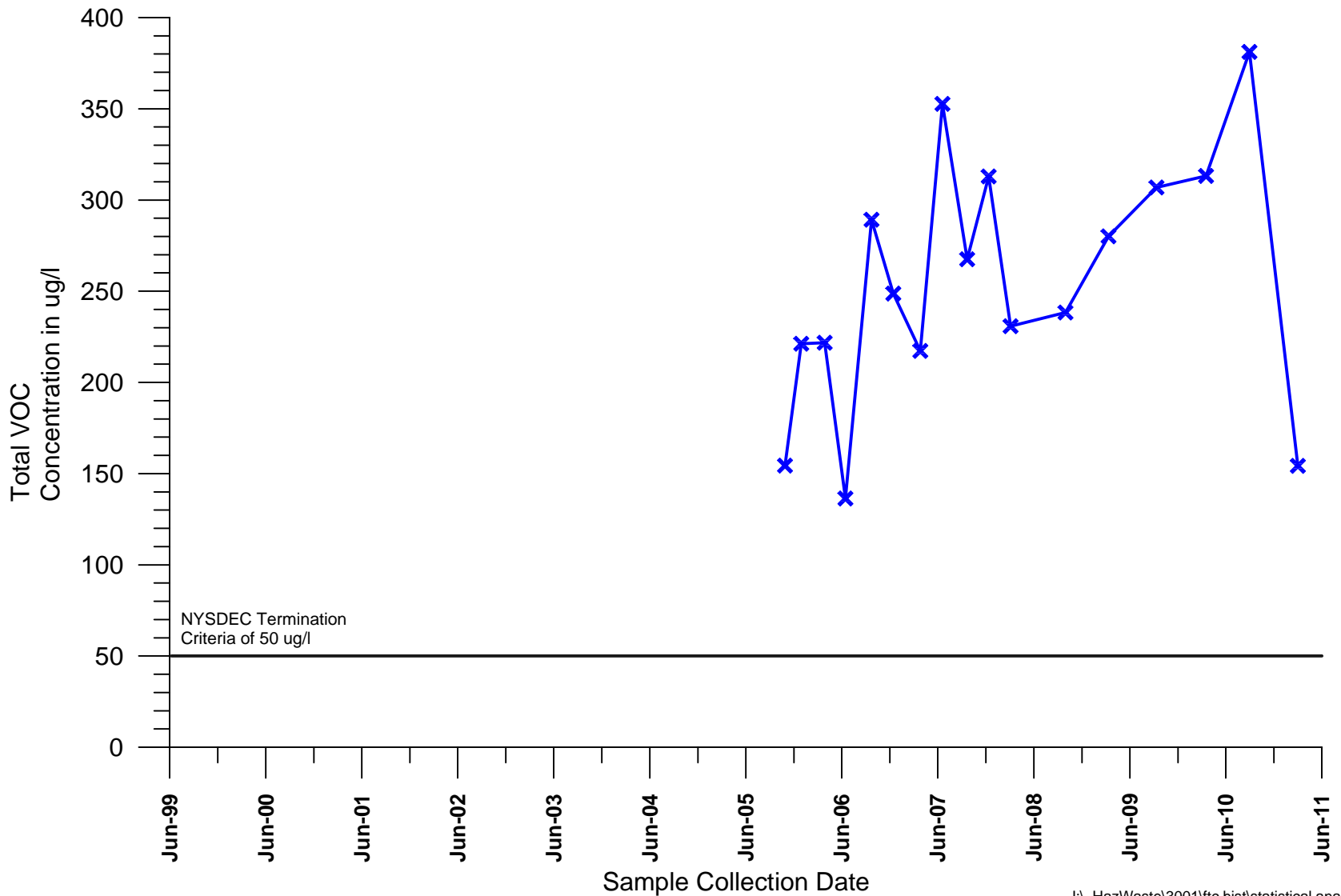


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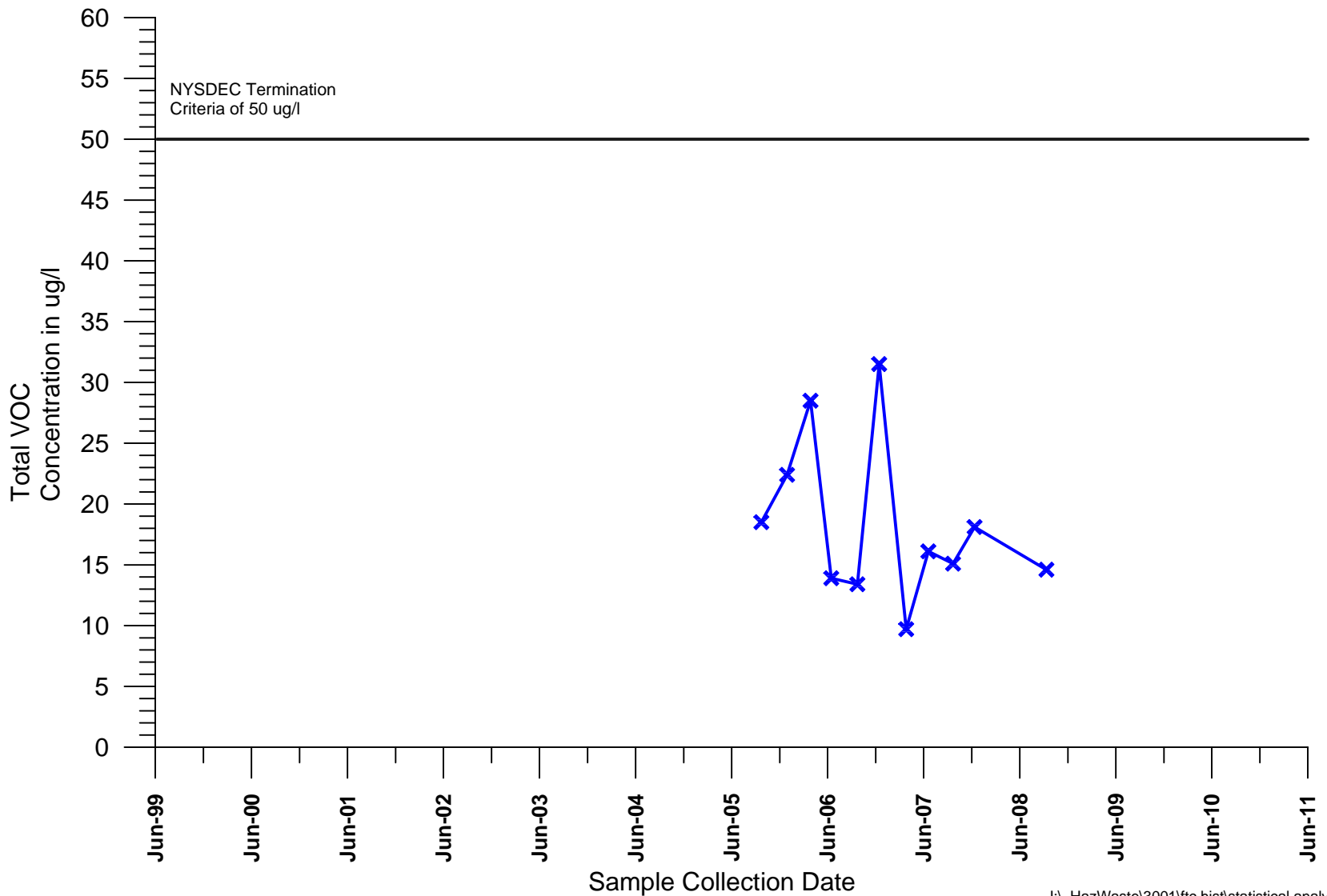


**FIREMAN'S TRAINING CENTER  
OFF-SITE MONITORING WELLS  
TOTAL VOC DATA FOR WELL BP-14C**

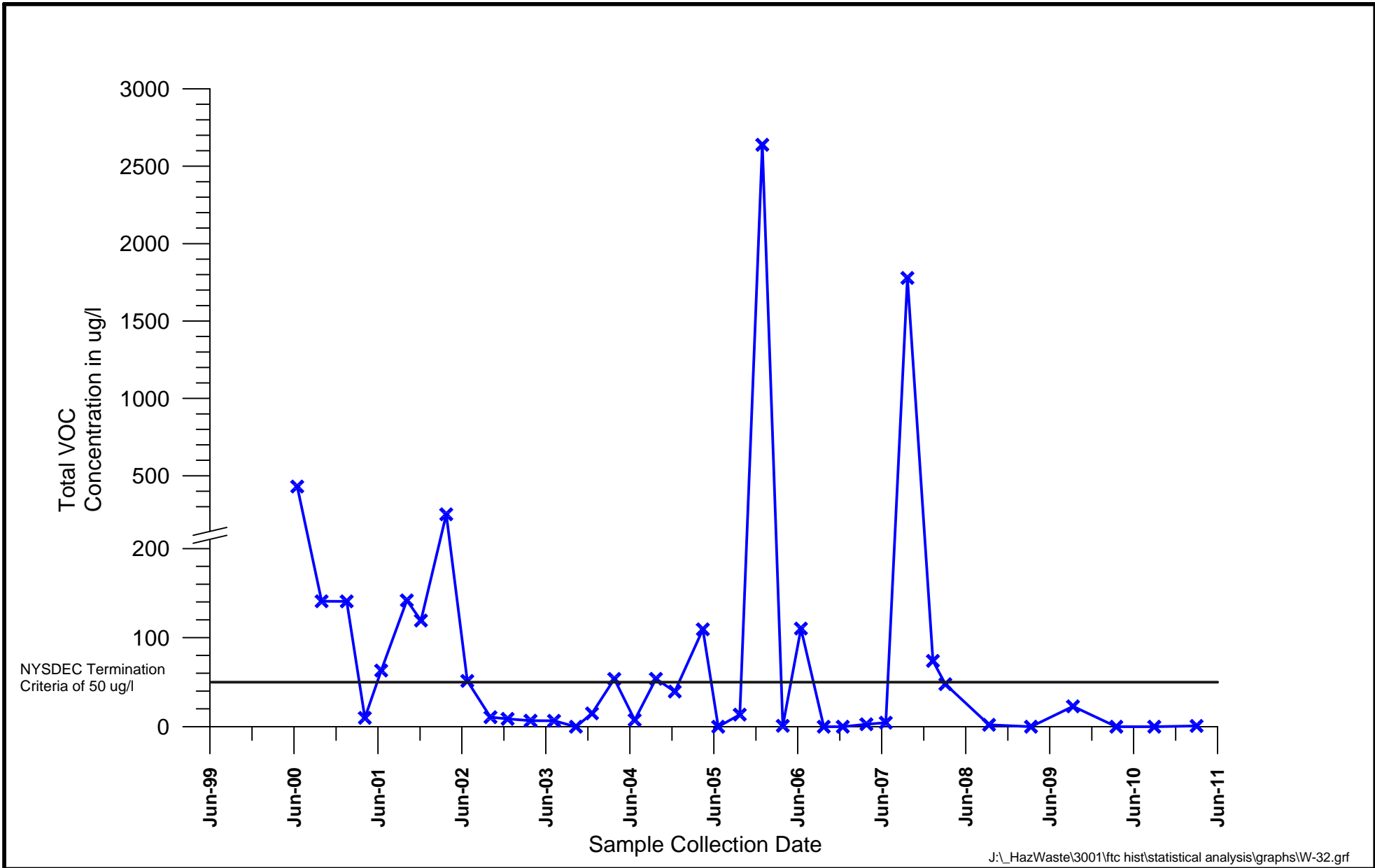
**Figure  
D-9**



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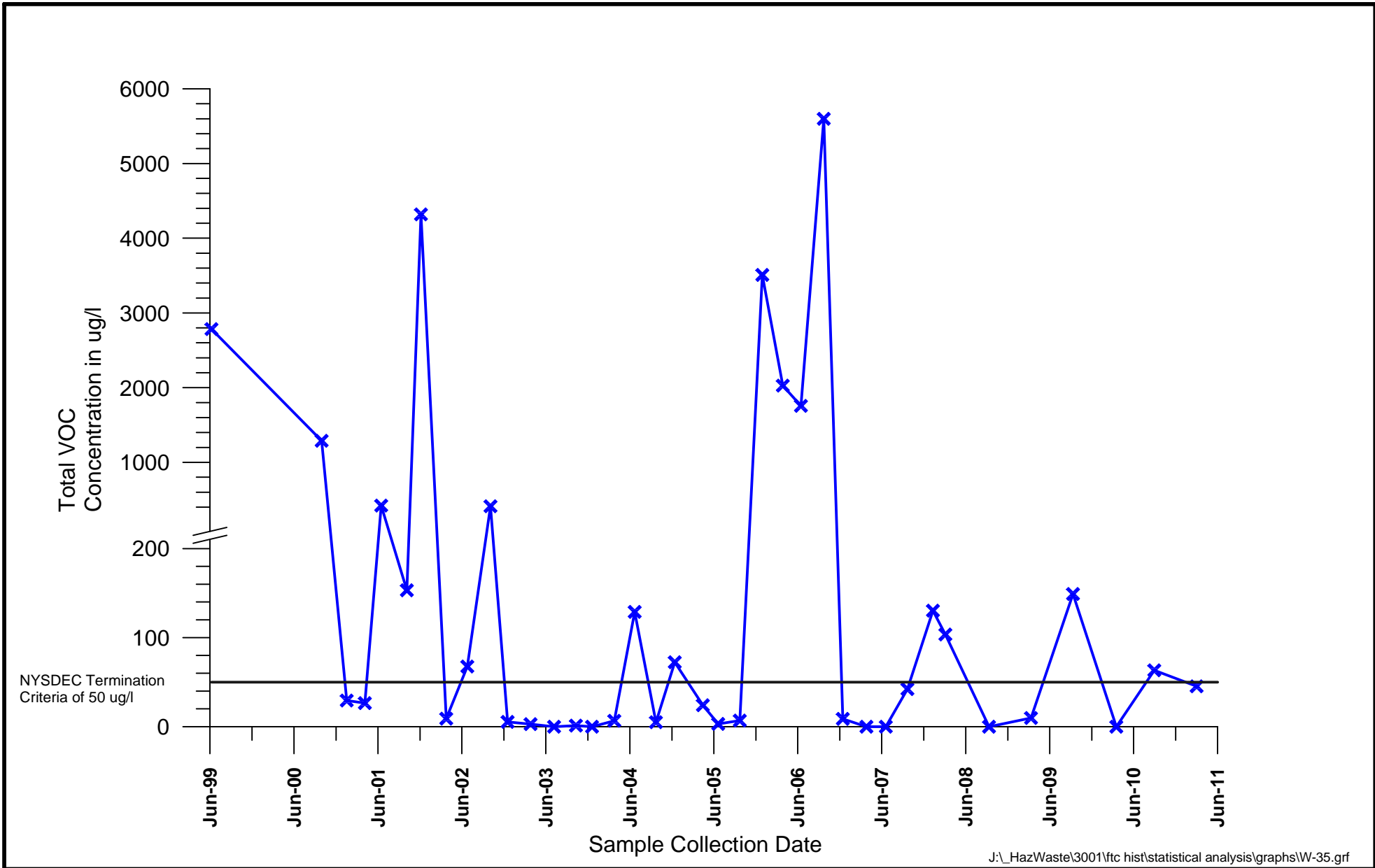


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**FIREMAN'S TRAINING CENTER  
ON-SITE MONITORING WELLS  
TOTAL VOC DATA FOR WELL W-32**

**Figure  
D-12**



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**FIREMAN'S TRAINING CENTER  
ON-SITE MONITORING WELLS  
TOTAL VOC DATA FOR WELL W-35**

**Figure  
D-13**