

**2016 OU2 GROUNDWATER INVESTIGATION  
DATA SUMMARY REPORT  
VPB164**

**NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP)  
SITE 1 OU2  
BETHPAGE, NY**

Prepared for:



**Department of the Navy  
Naval Facilities Engineering Command, Atlantic  
9324 Virginia Avenue  
Building Z-144  
Norfolk, Virginia 23511**

**May 2017**

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Prepared by:



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**Contract Number: N62470-11-D-8013  
CTO WE15**

**May 2017**

A handwritten signature in black ink that reads "Brian Caldwell".

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**Brian Caldwell  
Contract Task Order Manager**

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## List of Acronyms and Abbreviations

AOC	Area of Concern
bgs	below ground surface
CSM	Conceptual Site Model
DoD	Department of Defense
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency, United States
ESS	Environmental Sequence Stratigraphy
ft	feet
GOCO	Government-Owned Contractor-Operated
IDW	Investigation Derived Waste
IR	Installation Restoration
Katahdin	Katahdin Analytical Services
NAD	North American Datum
NAVD	North American Vertical Datum
NAVFAC	Naval Facilities Engineering Command
NG	Northrop Grumman
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDEC	New York State Department of Environmental Conservation
OU	Operable Unit
PCBs	Polychlorinated Biphenyls
PCE	Tetrachloroethene
PID	Photoionization Detector
POTW	Publicly Owned Treatment Works
PPE	Personal Protective Equipment
SAP	Sampling and Analysis Plan
SVOC	Semivolatile Organic Compounds
TCE	Trichloroethene
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TOC	Total Organic Carbon
UFP	United Federal Programs
VOC	Volatile Organic Compounds
VPB	Vertical Profile Boring

## 1.0 PROJECT BACKGROUND

Resolution Consultants has prepared this Data Summary Report for the Naval Facilities Engineering Command (NAVFAC), Mid-Atlantic under contract task order WE15 Contract N62470-11-D-8013. This report describes vertical profile boring (VPB) installation activities (specifically at the VPB164 location) in 2016 for the Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage Operable Unit (OU) 2 Site 1 offsite plume. NWIRP Bethpage is located in east-central Nassau County, Long Island, New York, approximately 30 miles east of New York City (Figure 1).

### 1.1 Scope and Objectives

This data summary report provides information on the installation of VPB164. The purpose of the VPB164 investigation was to ascertain subsurface conditions and contaminant levels and the western extent of the offsite plume south of Hempstead Turnpike and west of Seaman's Neck Road. VPB locations within the general vicinity of VPB164 are shown in Figure 2. VPB164 was completed to 970 feet (ft) below ground surface (bgs).

Field tasks were conducted in 2016 in accordance with the *United Federal Programs Sampling and Analysis Plan (UFP SAP)*, Bethpage, New York (Resolution Consultants, 2013a) and the *UFP SAP Addendum Installation of Vertical Profile Borings and Monitoring Wells* (Resolution Consultants, 2013b). The field investigation included completing one vertical profile boring, groundwater grab samples, geophysical logging, and surveying.

Documentation of these activities is included in Appendix A of this report.

### 1.2 Site History

NWIRP Bethpage is in the Hamlet of Bethpage, Town of Oyster Bay, New York. Since its inception in 1941, the plant's primary mission was the research, prototyping, testing, design, engineering, fabrication, and primary assembly of military aircraft. The facilities at NWIRP included four plants used for assembly and prototype testing, a group of quality control laboratories, two warehouse complexes (north and south), a salvage storage area, water recharge basins, the Industrial Wastewater Treatment Plant, and several smaller support buildings.

The Navy's property originally totaled 109.5 acres and was formerly a Government-Owned Contractor-Operated (GOCO) facility that was operated by Northrop Grumman (NG) until September 1998. Prior to 2002, the NWIRP property was bordered on the north, west, and south by current or former NG facilities, and on the east by a residential neighborhood. By March 2008,

approximately 100 acres of NWIRP property were transferred to Nassau County in three separate actions. The remaining 9 acres and access easements were retained by the Navy to continue remedial efforts at Installation Restoration (IR) Site 1 – Former Drum Marshalling Area and Site 4 – Former Underground Storage Tanks (Area of Concern [AOC] 22). A parcel of land connecting the two sites was also retained. Currently, the 9-acre parcel of NWIRP is bordered on the east by a residential neighborhood and on the north, south, and west by Steel Equities; however, a small portion near Sites 2 and 3 is still owned by Nassau County. Access to the NWIRP is from South Oyster Bay Road.

### **1.3 Geology and Hydrogeology**

Overburden at the site consists of well over 1,000 ft of unconsolidated deposits overlying crystalline bedrock of the Hartland Formation. Overburden is divided into four geologic units: the upper Pleistocene deposits, the Magothy Formation, the clay member of the Raritan Formation (“Raritan Clay”) and the Lloyd Sand member of the Raritan Formation (“Lloyd Sand”) (Geraghty and Miller, 1994).

The upper Pleistocene ranges in thickness from approximately 50 to 100 ft and consists of till and outwash deposits of medium to coarse sand and gravel with lenses of fine sand, silt and clay (Smolensky and Feldman, 1988); these deposits form the Upper Glacial Aquifer. Directly underlying this unit is the Magothy Formation with a thickness of 650 to 900 ft that extends to a depth of 700 to 1,000 ft bgs, as observed at the former NWIRP and extending southeast to areas south of Southern State Parkway. Locally at VPB164, the bottom of the Magothy (top of the Raritan Clay) is encountered at approximately 958 feet bgs. The Magothy is characterized by fine to medium sands and silts interbedded with zones of clays, silty sands and sandy clays. Sand and gravel lenses are found in some areas between depths of 600 and 880 ft bgs; these deposits form the main producing zones of the Magothy Aquifer

Investigations performed by the Navy since 2012 indicate that the bottom of the Magothy (top of the Raritan Clay) can extend to depths of 700 to greater than 1,000 ft bgs. The top of the Raritan Clay deepens to the south-southeast, as evidenced by clay depths of 1,000 ft bgs (or more) in borings installed offsite. The Raritan Clay Unit is of continental origin and consists of clay, silty clay, clayey silt, and fine silty sand. This member acts as a confining layer over the Lloyd Sand Unit. The Lloyd Sand Unit is also of continental origin, having been deposited in a large fresh water lacustrine environment. The material consists of fine to coarse-grained sands, gravel, inter-bedded clay, and silty sand. These deposits form the Lloyd Aquifer.

The Upper Glacial Aquifer and the Magothy Aquifer comprise the aquifers of interest at the NWIRP. Regionally, these formations are generally considered to form a common, interconnected aquifer as the coarse nature of each unit near their contact and the lack of any regionally confining clay unit allows for the unrestricted flow of groundwater between the formations.

The Magothy Aquifer is the major source of public water in Nassau County. The most productive water bearing zones are the discontinuous lenses of sand and gravel that occur within the siltier matrix. The major water-bearing zones are coarse sand and gravel lenses located in the lower portion of the Magothy. The Magothy Aquifer is commonly regarded to function overall as an unconfined aquifer at shallow depths and a confined aquifer at deeper depths. The drilling program at the NWIRP has revealed that clay zones beneath the facility are common but laterally discontinuous. No confining clay units of facility-wide extent have been encountered. This is also the case for borings installed offsite.

Groundwater is encountered at a depth of approximately 50 ft bgs at the facility. Historically, because of pumping and recharge at the facility, groundwater depths have been measured to range from 40 to 60 ft bgs. The groundwater flow in the area is to the south-southeast.

Resolution Consultants reviewed the geologic data and regional literature and developed four representative base-wide cross sections to support development of a Conceptual Site Model (CSM). A description of the application of Environmental Sequence Stratigraphy (ESS) and the results are provided in Appendix B.



## **2.0 FIELD PROGRAM**

Field investigation activities at VPB164 consisted of drilling, sampling, soil/groundwater analysis, geophysical logging, and surveying. Drilling during this investigation was performed by Delta Well and Pump Company of Ronkonkoma, New York. A description of these tasks is provided below.

### **2.1 Vertical Profile Borings**

One vertical profile boring (VPB164) was completed during this field effort between March 30, 2016 and May 5, 2016. The total depth of VPB164 was 970 ft. The location is shown in Figure 2 and details are summarized in Table 1.

#### **2.1.1 Drilling**

VPB164 was installed by drilling an 8-inch diameter hole using mud rotary drilling techniques. Drilling mud consisted of potable water and polymer-free sodium bentonite or equivalent material. Drilling mud was contained and re-circulated in baffled, high capacity mud tubs. A sand separator was used intermittently to remove fines from circulation.

#### **2.1.2 Sampling**

A total of eight (8) split spoon samples were collected from ground surface to the bottom of the boring. A change in geology was observed by the field geologist at 958 ft bgs and three (3) split spoon samples were subsequently collected to confirm the presence of the Raritan Clay. Samples were logged by the field geologist and screened for Volatile Organic Compounds (VOCs) utilizing a photoionization detector (PID). A detailed boring log for VPB164 is included in Appendix A.

Groundwater grab samples were collected every 50 ft for the first 200 ft of borehole depth. After the first 200 ft, groundwater grab samples were collected approximately every 20 ft until the boring terminated in the Raritan. Groundwater grab samples were collected with a hydropunch sampler and analyzed for VOCs using Environmental Protection Agency (EPA) Method 8260C. The groundwater grab samples were analyzed by Katahdin Analytical Services (Katahdin), a Department of Defense (DoD) Environmental Laboratory Accreditation Program (ELAP), and New York State Department of Environmental Conservation (NYSDEC)-certified laboratory. During the collection of groundwater grab samples, field parameters were measured (pH, temperature, specific conductivity, oxidation reduction potential, dissolved oxygen, and turbidity). Data validation was performed by Resolution Consultants. Groundwater grab sample logs, data validation packages, and analytical data tables are included in Appendix A.

One soil sample was collected for laboratory analysis for total organic carbon (TOC) by EPA series SW-846 method 9060A. During drilling, air sampling was conducted under a Community Air Monitoring Plan. One air sample was collected using a Summa canister and submitted for laboratory analysis by EPA Method TO-15. All analyses were performed or sub-contracted by Katahdin. Data validation of both TOC and air data was performed by Resolution Consultants. Data validation packages and analytical data tables are included in Appendix A.

### **2.1.3 Geophysics**

Borehole geophysical logs (gamma) were recorded after the borehole was drilled but prior to the removal of drill rods. A Mount Sopris Instrument model 2PGA-100 poly gamma was used. Starting at the top of the hole, the probe was advanced at a maximum rate of 12 ft per minute. A copy of the log was printed in the field for review once the probe reached the bottom of the borehole. The instrument was then raised to the top of the boring and a second log was generated and printed in the field. The down hole gamma log sheets and plots comparing the gamma log with TCE and PCE concentrations from hydropunch samples are included in Appendix A.

## **2.2 Decontamination and Investigation Derived Waste (IDW)**

Resolution Consultants utilized dedicated and disposable sampling equipment when possible to avoid the potential for cross-contamination of samples. The sampling equipment included dedicated plastic scoops, disposable Teflon or polyethylene tubing, disposable gloves, and laboratory supplied sample bottles. Hand held equipment, split spoons, and the hydropunch were decontaminated using Luminox and water wash, a potable water rinse, followed by a distilled water rinse. Water was collected in 5-gallon pails or 55-gallon drums.

As part of the IDW management practices and in accordance with the SAP, the investigation waste (consisting of soil cuttings, drilling muds, IDW fluids, and personal protective equipment [PPE]) generated during the boring installation was containerized and staged at NWIRP Bethpage. IDW solids were characterized and disposed of properly. Representative samples from each roll off were submitted to Katahdin for analysis of:

- Target Compound List (TCL) VOCs
- TCL Semi-volatile Organic Compounds (SVOCs)
- Toxicity Characteristic Leaching Procedure (TCLP) Metals
- Polychlorinated Biphenyls (PCBs)

- Total petroleum hydrocarbons
- Corrosivity
- Ignitability
- Reactive Cyanide
- Reactive Sulfide
- Paint Filter

IDW water was containerized in frac tanks and stored at NWIRP Bethpage for characterization and ultimate disposal to the Publicly Owned Treatment Works (POTW), in accordance with the facilities existing discharge permit. A representative water sample was collected from each frac tank and submitted to Katahdin for analysis of VOCs via Method SW 624, pH via Method SW 9040B, PCBs via Method 8082 and Total Metals via Method SW 846. To the extent feasible, soil and water were not mixed. All analytical criteria were met for disposal of soil and water.

### **2.3 Surveying**

A survey of the boring location was conducted at the end of fieldwork by C. T. Male, Inc., of Latham, NY, under the direct supervision of Resolution Consultants. The location was tied into the existing base map developed for this investigation. The survey elevation is referenced to the North American Vertical Datum (NAVD) 1988 and has a vertical accuracy of 0.01 foot. Vertical control is based on observations of the Continuously Operating Reference (COR) Stations Queens and Central Islip. The horizontal location is referenced to the North American Datum (NAD) 1983 (2011) N.Y. Long Island Zone 3104 and has an accuracy of 0.1 foot. Local horizontal and vertical control is based on Global Positioning System (GPS) observations using the NYSNet Real Time Network.

A table of survey data (ground, latitude/longitude and northing/easting) and a survey map is included in Appendix A.

### 3.0 REFERENCES

Geraghty and Miller, Inc., 1994. *Remedial Investigation Report, Grumman Aerospace Corporation, Bethpage, New York*. Revised September 1994.

Naval Facilities Engineering Command (NAVFAC), 2003. *Record of Decision Naval Weapons Industrial Reserve Plant Bethpage, New York, Operable Unit 2 – Groundwater*, NYS Registry: 1-30-003B. April.

Resolution Consultants, 2013a. *United Federal Programs Sampling and Analysis Plan, Site OU-2 Offsite TCE Groundwater Plume Investigation*, NWIRP, Bethpage, New York. April.

Resolution Consultants, 2013b. *UFP SAP Addendum, Installation of Vertical Profile Borings and Monitoring Wells*. NWIRP, Bethpage, New York. December.

Smolensky, D., and Feldman, S., 1988. *Geohydrology of the Bethpage-Hicksville-Levittown Area, Long Island, New York*, U.S. Geological Survey Water-Resourced Investigations Report 88-4135, 25 pp.

## **Tables**

**TABLE 1**  
**VERTICAL PROFILE BORING SUMMARY**  
**2016 OU2 GROUNDWATER INVESTIGATION**  
**NWIRP BETHPAGE, NY**

BORING	BORING START DATE	BORING COMPLETION DATE	GROUND ELEVATION (MSL)	TOTAL DEPTH (ft bgs)	SURFACE CASING SET AT (ft bgs)	NO. OF SPOON SAMPLES	GAMMA LOG (ft bgs)	NO. GW SAMPLES COLLECTED/ DUPLICATES/ ATTEMPTED	TOC SAMPLE DEPTH (ft bgs)	DATE OF AIR SAMPLE	MONITORING WELLS INSTALLED AT LOCATION
VPB164	3/30/2016	5/5/2016	56.79	970	53	8	968	39/2/6	263-265	4/27/2016	RE130D1, RE130D2

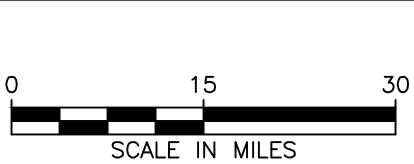
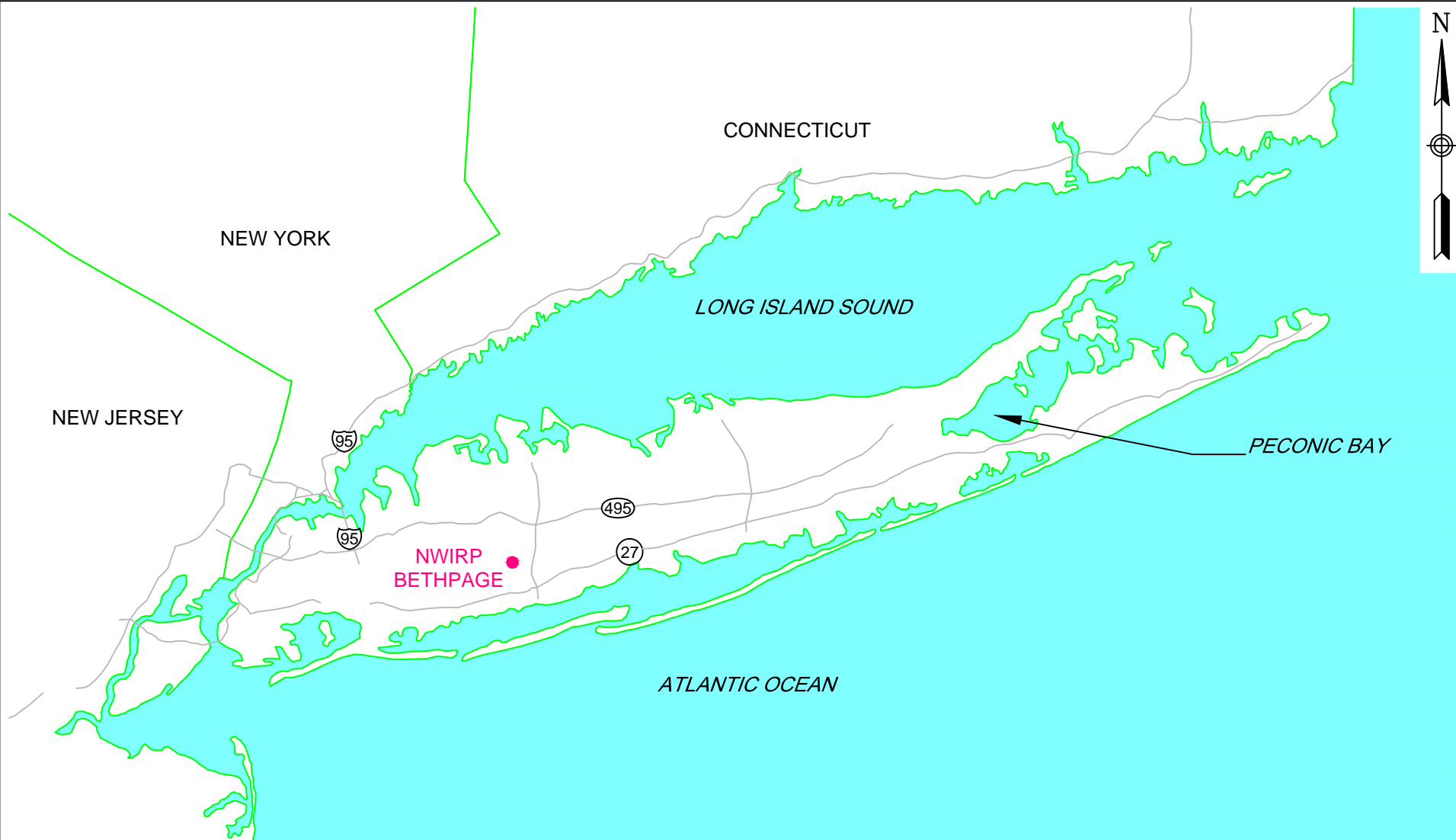
MSL - mean sea level

ft bgs - feet below ground surface

GW - Groundwater

TOC - Total Organic Carbon

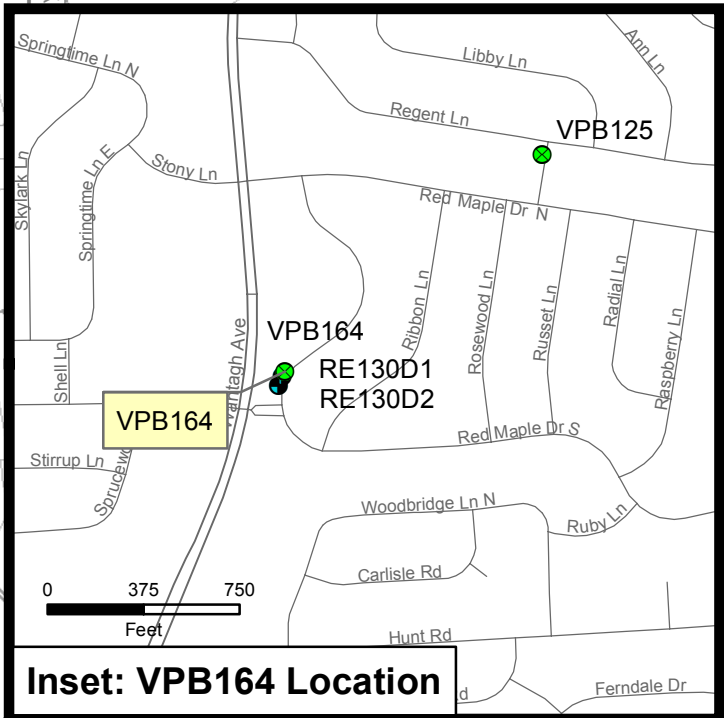
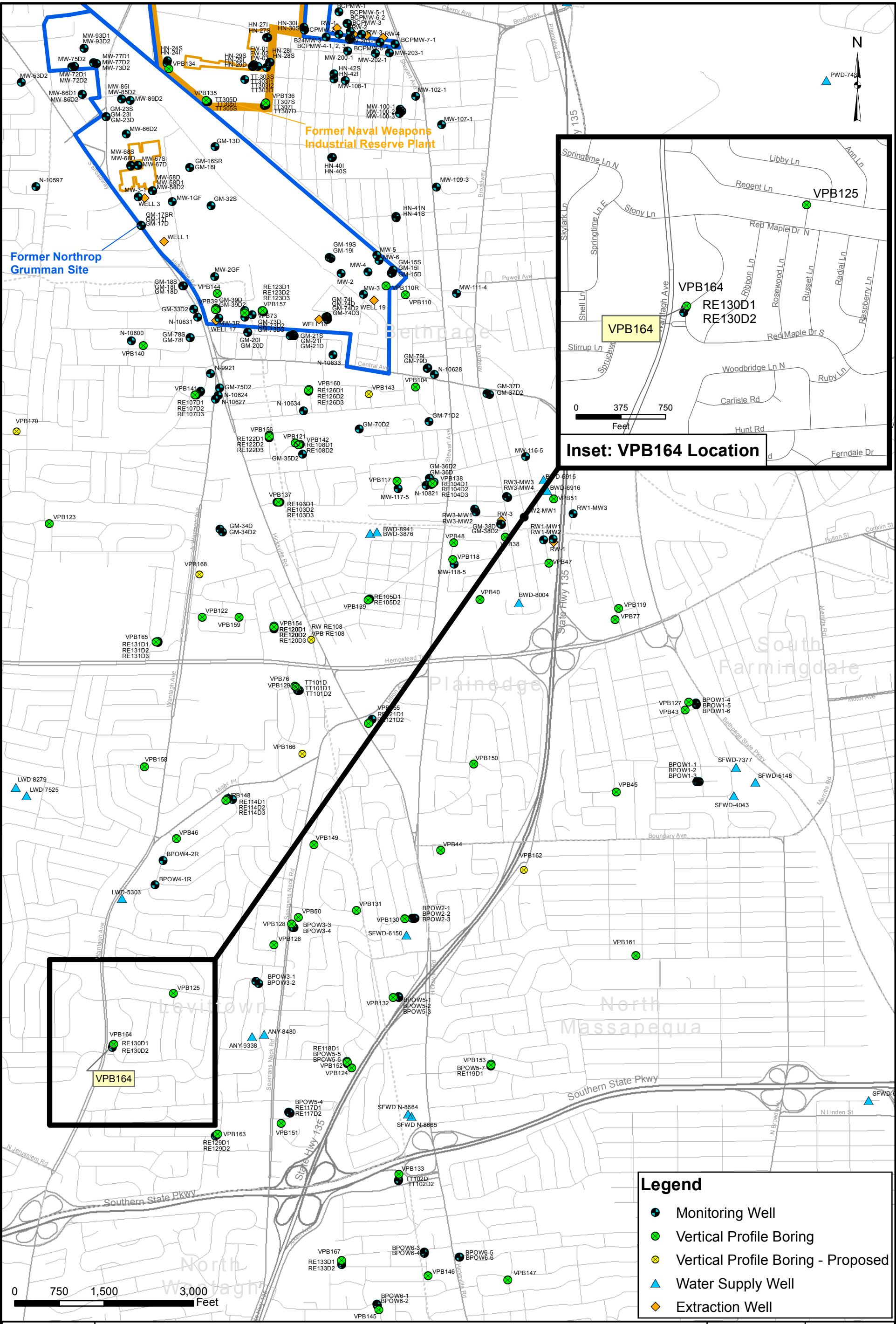
## **Figures**



GENERAL LOCATION MAP  
 NWIRP BETHPAGE  
 BETHPAGE, NEW YORK

CONTRACT NUMBER N62470-11-D-8013		CTO NUMBER WE15	
APPROVED BY ---		DATE ---	
APPROVED BY ---		DATE ---	
FIGURE NO. 1			REV 0





Legend	
<span style="color: blue;">●</span>	Monitoring Well
<span style="color: green;">●</span>	Vertical Profile Boring
<span style="color: yellow;">●</span>	Vertical Profile Boring - Proposed
<span style="color: blue;">▲</span>	Water Supply Well
<span style="color: orange;">◆</span>	Extraction Well



**VPB164 LOCATION MAP**  
**NAVAL WEAPONS INDUSTRIAL RESERVE PLANT**  
**BETHPAGE, NEW YORK**

CONTRACT NUMBER N62470-11-D8013	CTO NUMBER WE 15
APPROVED BY PS	DATE 8/22/2016
APPROVED BY	DATE
FIGURE NO. <b>2</b>	REV 0

**Appendix A**

**VPB164**

**Section 1**

**VPB164 Boring and Gamma Logs**

<b>Client:</b> Department of the Navy, Naval Facilities Engineering Command, Mid-Atlantic	<b>Logged By:</b> V. Varricchio
<b>Location:</b> Wantagh Ave & West Red Maple Dr, Town of Hempstead, NY	<b>Northing:</b> 197562.93 <b>Easting:</b> 1122351.40
<b>Project #:</b> 60266526	<b>Ground Elevation (ft amsl):</b> 56.79
<b>Start Date:</b> 3/30/2016	<b>Drilling Method:</b> Auger (0-50' bgs) Mud Rotary (>50' bgs)
<b>Finish Date:</b> 5/5/2016	<b>Total Depth (ft):</b> 970.0

Mud Rotary Drilling Note: Unless denoted by a splitspoon sample (indicated by the presence of a PID reading), boundaries between strata are approximate and may be transitional because they are based on screened wash samples collected during mud rotary drilling at 5 ft intervals.

DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
0								
2					Upper Glacial			Strong brown (7.5YR 4/6) well graded fine to coarse subrounded SAND, little fine to coarse subrounded Gravel
4						SW		
6								
8						SW		Strong brown (7.5YR 4/6) well graded fine to coarse subrounded SAND, little fine to coarse subrounded Gravel
10								
12						SW		Strong brown (7.5YR 4/6) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel
14								
16						SW		Strong brown (7.5YR 4/6) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel
18								
20						SW		Yellowish brown (10YR 5/4) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel
22								
24						SW		Yellowish brown (10YR 5/4) well graded fine to coarse subrounded SAND, few fine to coarse subrounded Gravel
26								
28						SW		Yellowish brown (10YR 5/4) well graded fine to coarse subrounded SAND, few fine to coarse subrounded Gravel
30								
32						SW		Yellowish brown (10YR 5/4) well graded fine to coarse subrounded SAND, little fine to coarse subrounded Gravel
34								
36						SW		Olive yellow (2.5Y 6/6) well graded fine to coarse subangular SAND, little fine to coarse subrounded Gravel
38								
40						SW		Olive yellow (2.5Y 6/6) well graded fine to coarse subangular SAND, few fine to coarse subangular Gravel
42								
44						SW		Yellowish brown (10YR 5/6) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel, trace silt
46								
48						SW		Yellowish brown (10YR 5/6) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel, trace silt
50								
52						SW		Yellowish brown (10YR 5/6) well graded fine to coarse subangular SAND, few fine to coarse subrounded Gravel, trace silt
54						GP		

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DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
54	30 60 90							
56					Upper Glacial	GP		Brown (10YR 5/3) poorly graded fine subrounded GRAVEL, little well graded fine to coarse subrounded Sand (continued)
58						GP		Brown (10YR 5/3) poorly graded fine subrounded GRAVEL, little well graded fine to coarse subrounded Sand, trace silt
60			<0.50	<0.50		GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
62						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
64						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
66						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
68						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
70						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
72						GP		Brownish yellow (10YR 6/8) poorly graded fine subrounded GRAVEL, little fine to coarse subangular Sand
74						SM		Pale brown (10YR 6/3) Silty well graded fine to coarse subangular SAND, trace fine subrounded gravel and iron nodules
76					GM		Brown (10YR 5/3) Silty fine subrounded GRAVEL, few well graded fine to coarse subangular sand, trace iron nodules	
78					GC		Dark grayish brown (10YR 4/2) Clayey fine subrounded GRAVEL, trace well graded fine to coarse subangular sand and iron nodules	
80					CH		Dark grayish brown (10YR 4/2) fat CLAY, trace few well graded fine to medium Sand and iron nodules	
82					ML		Yellowish brown (10YR 5/6) poorly graded fine Sandy SILT, trace fine subangular gravel	
84					CH		Very dark gray (5Y 3/1) Silty fat CLAY, trace fine subrounded gravel, trace iron nodules	
86					Magothy	CH		Very dark gray (5Y 3/1) Silty fat CLAY, trace fine subrounded gravel, trace iron nodules
88						SP		Grayish brown (10YR 5/2) poorly graded angular coarse SAND, trace fat Clay
90			<0.50	<0.50		SP		Grayish brown (10YR 5/2) poorly graded angular coarse SAND, trace fat Clay
92						SP-SC		Grayish brown (10YR 5/2) poorly graded angular coarse SAND, with few fat Clay
94						SP-SC		Pale brown (10YR 6/3) poorly graded angular coarse SAND with few fat Clay
96								
98								
100								
102								
104								
106								
108								
110								
112								
114								

(Continued Next Page)

DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
116	30 60 90				Magothy			
118						SP-SC		Pale brown (10YR 6/3) poorly graded angular coarse SAND with few fat Clay <i>(continued)</i>
120						SP-SC		Yellowish brown (10YR 5/4) poorly graded fine SAND with few fat Clay
122								
124						GP		Yellowish brown (10YR 5/4) poorly graded fine subangular GRAVEL, trace poorly graded subangular coarse Sand and fat clay
126								
128								
130						SP		Brown (10YR 5/3) poorly graded fine SAND, trace fat Clay and silt
132								
134						SP		Yellowish brown (10YR 5/6) poorly graded fine SAND, trace fat Clay
136								
138								
140						SC		Pale brown (10YR 6/3) Clayey poorly graded fine SAND, trace silt
142								
144						SC		Pale brown (10YR 6/3) Clayey poorly graded fine SAND, trace silt
146								
148								
150			<0.50	<0.50	SP		Very pale brown (10YR 7/4) poorly graded fine SAND, trace fat Clay	
152								
154					SC		Light gray (10YR 7/2) Clayey poorly graded fine SAND, trace silt	
156								
158								
160					CH		Light gray (10YR 7/2) fat CLAY, trace Silt and poorly graded fine sand	
162								
164					CH		Light gray (10YR 7/2) fat CLAY, trace Silt and poorly graded fine sand	
166								
168								
170					SW		Brownish yellow (10YR 6/6) well graded fine to medium SAND, trace fat Clay and iron nodules	
172								
174					CH		Dark gray (10YR 4/1) fat CLAY, trace iron nodules	
176								

(Continued Next Page)

DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
178					Magothy			Gray (10YR 5/1) fat CLAY, trace poorly graded fine Sand	
180						CH			
182									
184									Gray (10YR 5/1) fat CLAY, trace poorly graded fine Sand
186							CH		
188									
190									Very pale brown (10YR 8/2) trace poorly graded fine Sandy fat CLAY
192							CH		
194									
196									Brownish yellow (10YR 6/6) fat Clayey well graded fine to coarse subangular SAND, few iron nodules
198									
200							SC		Brownish yellow (10YR 6/6) fat Clayey well graded fine to coarse subangular SAND, some iron nodules
202									
204			0.66	0.92					Yellowish brown (10YR 5/6) Silty fine SAND, few lignite, trace fine subrounded gravel and muscovite
206							SM		
208									
210							ML		Black (2.5Y 2.5/1) poorly graded fine Sandy SILT, few lignite, trace fat clay
212									
214								Dark grayish brown (10YR 4/2) poorly graded fine Sandy SILT, few lignite, trace fat clay	
216						ML			
218									
220			0.37	0.62				Dark grayish brown (10YR 4/2) Silty poorly graded fine SAND, trace fat clay and muscovite	
222						SM			
224								Dark gray (10YR 4/1) poorly grade fine Sandy SILT, trace muscovite and lignite	
226						ML			
228									
230								Dark gray (10YR 4/1) poorly grade fine Sandy SILT, trace muscovite and lignite	
232						ML			
234								Dark gray (10YR 4/1) Silty fat CLAY, trace muscovite and lignite	
236						CH-ML			
238			0.94	0.87				Dark gray (10YR 4/1) Silty fat CLAY, trace lignite	
						CH			

(Continued Next Page)

DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION		
240			0.94	0.87	Magothy	CH		Dark gray (10YR 4/1) Silty fat CLAY, trace lignite (continued)		
242										Dark gray (10YR 4/1) Silty fat CLAY, trace lignite
244										Dark gray (10YR 4/1) Silty fat CLAY, trace lignite
246										Dark gray (10YR 4/1) Silty fat CLAY, trace lignite
248										Dark gray (10YR 4/1) Silty fat CLAY, trace lignite
250								Dark gray (10YR 4/1) Silty fat CLAY, trace lignite		
252								Dark gray (10YR 4/1) Silty fat CLAY, trace lignite		
254								Dark gray (10YR 4/1) Silty fat CLAY, trace lignite		
256								Dark gray (10YR 4/1) Silty fat CLAY, trace lignite		
258								Dark gray (10YR 4/1) Silty fat CLAY, trace lignite		
260			<0.50	<0.50		GP		Dark gray (10YR 4/1) poorly graded fine angular GRAVEL, trace fat Clay and lignite		
262										
264		0				SW		Brown (10YR 5/3) well graded fine to coarse angular SAND, trace fat Clay and lignite		
266										
268						ML		Dark gray (10YR 4/1) SILT, trace lignite and muscovite		
270										
272						ML		Dark gray (10YR 4/1) SILT, trace fat Clay, lignite and muscovite		
274										
276						ML		Dark grayish brown (10YR 4/8) poorly graded fine to coarse Sandy SILT, trace lignite		
278										
280			<0.50	<0.50		ML		Dark grayish brown (10YR 4/8) poorly graded fine to coarse Sandy SILT, few lignite		
282										
284						ML		Dark gray (10YR 4/1) SILT, few lignite, trace fat Clay		
286										
288						ML		Dark gray (10YR 4/1) poorly grade fine Sandy fat CLAY, trace lignite and muscovite		
290										
292						CH		Dark gray (10YR 4/1) silty fat CLAY, trace lignite		
294										
296						CH-ML		Dark gray (10YR 4/1) silty fat CLAY, trace lignite		
298										
300			<0.50	<0.50				Dark gray (10YR 4/1) silty fat CLAY, trace lignite		

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
302					Magothy	CH-ML		Dark gray (10YR 4/1) silty fat CLAY, trace lignite <i>(continued)</i>	
304				CH-ML				Dark gray (10YR 4/1) silty fat CLAY, trace lignite	
306									
308									Dark gray (10YR 4/1) silty fat CLAY, trace lignite
310						CH-ML			Dark gray (10YR 4/1) silty fat CLAY, trace lignite
312									
314								Dark gray (10YR 4/1) silty fat CLAY, little lignite	
316						CH-ML			
318									
320			<0.50	<0.50			ML		Dark gray (10YR 4/1) SILT, few well graded fine to medium Sand, trace lignite
322									
324							SP		Dark gray (10YR 4/1) poorly graded fine SAND, trace lignite
326									Very dark gray (10YR 3/1) poorly graded fine SAND, trace lignite
328									
330						SP	Very dark gray (10YR 3/1) poorly graded fine SAND, trace lignite		
332									
334						SP	Very dark gray (10YR 3/1) poorly graded fine SAND, trace lignite		
336									
338									
340			<0.50	<0.50		SP	Dark gray (10YR 4/1) poorly graded fine SAND, trace lean Clay and lignite		
342									
344						SP	Dark gray (10YR 4/1) poorly graded fine SAND, trace lean Clay, few lignite		
346									
348									
350						ML-CL		Dark gray (10YR 4/1) lean Clayey SILT, trace lignite	
352									
354								Dark gray (10YR 4/1) poorly grade fine SAND, few lean Clay and lignite	
356						SP			
358									
360			<0.50	<0.50				Very dark gray (10Y 3/1) Silty fat CLAY, trace lignite	
362						CH-ML			

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
364					Magothy			Gray (10Y 5/1) Silty fat CLAY, trace poorly graded fine sand and lignite
366				CH-ML		Gray (10Y 5/1) Silty fat CLAY, trace poorly graded fine sand and lignite		
368								
370				CH-ML		Gray (10Y 5/1) Silty fat CLAY, trace poorly graded fine sand and lignite		
372								
374								
376				CH-ML		Gray (10Y 5/1) Silty fat CLAY, trace poorly graded fine sand and lignite		
378								
380				CH		Light gray (5Y 7/1) fat CLAY, trace lignite		
382								
384		0			CH	Light gray (5Y 7/1) fat CLAY		
386								
388								
390					CH	Light gray (5Y 7/1) fine Sandy fat CLAY, trace lignite		
392								
394					CH	Light gray (5Y 7/1) fine Sandy fat CLAY, trace lignite		
396								
398								
400			<0.50	<0.50	CH	Light gray (5Y 7/1) fat CLAY, trace lignite		
402								
404					SC	Gray (2.5Y 5/1) soft fat Clayey fine subangular SAND, few lignite		
406								
408								
410					ML	Dark gray (5Y 4/1) SILT with fine Sand, trace lignite		
412								
414								
416					ML	Dark gray (5Y 4/1) SILT with fine Sand, trace lignite		
418								
420			<0.50	<0.50	SC	Light gray (5Y 7/1) Clayey fine subangular SAND		
422								
424					SC	Light gray (5Y 7/1) Clayey fine subangular SAND		

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
426					Magothy	SC		Light gray (5Y 7/1) Clayey fine subangular SAND <i>(continued)</i>
428				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
430				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
432				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
434				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
436				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
438				SC		Light gray (5Y 7/1) Clayey fine subangular SAND, trace pyrite		
440			<0.50	<0.50		CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY
442						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY
444						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY
446						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY
448						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite
450						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite
452						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite
454						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite
456						CL		Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite
458					CL	Dark gray (10YR 4/1) poorly grade fine Sandy lean CLAY, trace lignite		
460			<0.50	<0.50	SC	Dark gray (10YR 4/1) lean Clayey poorly graded fine SAND, trace lignite		
462					SC	Dark gray (10YR 4/1) lean Clayey poorly graded fine SAND, trace lignite		
464					SC	Dark gray (10YR 4/1) lean Clayey poorly graded fine SAND, trace lignite		
466					SC	Dark gray (10YR 4/1) lean Clayey poorly graded fine SAND, trace lignite		
468					SC	Dark gray (10YR 4/1) lean Clayey poorly graded fine SAND, trace lignite		
470					SM	Gray (10YR 5/1) Silty poorly graded fine SAND, trace lignite		
472					SM	Gray (10YR 5/1) Silty poorly graded fine SAND, trace lignite		
474					SM	Gray (10YR 5/1) Silty poorly graded fine SAND, trace lignite		
476					SM	Gray (10YR 5/1) Silty poorly graded fine SAND, trace lignite		
478					SM	Gray (10YR 5/1) Silty poorly graded fine SAND, trace lignite		
480			<0.50	<0.50	SW-SM	Gray (10YR 5/1) well graded fine to medium subangular SAND with little Silt		
482					SW-SM	Gray (10YR 5/1) well graded fine to medium subangular SAND with little Silt		
484					SW-SC	Gray (10YR 5/1) well graded fine to medium subangular SAND with little lean Clay		
486					SW-SC	Gray (10YR 5/1) well graded fine to medium subangular SAND with little lean Clay		

(Continued Next Page)

DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
486	30 60 90								
488					Magothy	SW-SC		Gray (10YR 5/1) well graded fine to medium subangular SAND with little lean Clay <i>(continued)</i>	
490						SW		Gray (10YR 5/1) well graded fine to coarse subangular SAND, trace Silt	
492									
494									
496						SW		Gray (10YR 5/1) well graded fine to coarse subangular SAND, trace Silt	
498									
500			<0.50	<0.50					Gray (10YR 5/1) Silty well graded fine to coarse subangular SAND, trace lean Clay and lignite
502						SM			
504		0							Gray (10YR 5/1) poorly graded fine SAND, trace lignite
506						SP			
508									
510						SM		Dark gray (10YR 4/1) Silty poorly graded fine SAND, trace lean Clay and lignite	
512									
514									
516						SM		Dark gray (10YR 4/1) Silty poorly graded fine SAND, trace lean Clay and lignite	
518									
520			<0.50	<0.50		SM		Dark gray (10YR 4/1) Silty poorly graded fine SAND, trace lignite	
522									
524									
526					SW		Gray (10YR 5/1) well graded fine to coarse subrounded SAND, trace lignite		
528									
530					SW		Gray (10YR 5/1) well graded fine to coarse subrounded SAND, trace lignite		
532									
534									
536					SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite		
538									
540			<2.5	<2.5	SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite		
542									
544					SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite		
546									

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DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
548	30 60 90							
550					Magothy	SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite
552								
554								
556						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite
558								
560			<0.50	<0.50		SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace lignite
562								
564								
566						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND
568								
570						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND
572								
574						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace Silt
576								
578								
580			<0.50	<0.50		SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace Silt
582								
584						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace Silt and lignite
586								
588								
590						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, trace Silt and lignite
592								
594						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, few Silt, trace lignite
596								
598						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, few Silt, trace lignite
600								
602						SW		Gray (10YR 5/1) well graded medium to coarse subrounded SAND, few Silt, trace lignite
604								
606						SC		Gray (7.5YR 5/1) fat Clayey poorly graded fine SAND, trace muscovite
608			<0.50	<0.50		SC		

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
610					Magothy			Gray (7.5YR 5/1) fat Clayey poorly graded fine SAND, trace muscovite <i>(continued)</i>	
612						SC			
614									Dark gray (7.5YR 4/1) fine Sandy fat Clay
616						CH			
618									
620			<0.50	<0.50					Grayish brown (10YR 5/2) Silty well graded fine to coarse subrounded SAND, trace lignite
622						SM			
624									Gray (10YR 6/1) Clayey poorly graded medium SAND, trace lignite
626						SC			
628									
630						SP-SC			Light gray (7.5YR 7/1) poorly graded medium SAND, few lean Clay, trace lignite
632									
634						SP-SC			Very dark gray (10YR 3/1) poorly graded medium SAND, few lean Clay, trace lignite
636						SP-SC			
638									
640			<0.50	<0.50				Gray (10YR 5/1) poorly graded medium SAND, trace Silt and lignite	
642					SP				
644								Gray (10YR 5/1) poorly graded medium SAND, trace Silt and lignite	
646					SP				
648									
650					GP			Light gray (10YR 7/2) poorly graded fine subrounded GRAVEL, some well graded medium to coarse subrounded Sand, trace lignite	
652									
654					GP			Light gray (10YR 7/2) poorly graded fine subrounded GRAVEL, some well graded medium to coarse subrounded Sand, trace lignite	
656									
658									
660			<0.50	<0.50				Very pale brown (10YR 8/3) poorly graded fine to coarse subrounded SAND, some poorly graded fine subrounded Gravel	
662					SW				
664		0						Very pale brown (10YR 8/3) poorly graded fine to coarse subrounded SAND, some poorly graded fine subrounded Gravel	
666					SW				
668									
670					SW			Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subrounded SAND	

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
672					Magothy	SW		Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subrounded SAND (continued)
674						SW		Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subrounded SAND, trace lean clay
676						SW		
678						SW		
680						SW		Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subrounded SAND
682						SW		
684			<1.0	<1.0		SW		Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subangular SAND
686						SW		
688						SW		Very pale brown (10YR 8/3) Gravelly poorly graded fine to coarse subangular SAND
690						SW		
692						SW		
694						SW		Light gray (10YR 7/2) Gravelly poorly graded fine to coarse subangular SAND, trace lean clay
696						SW		
698						SW		
700			<0.50	<0.50	GP		Light gray (10YR 7/2) poorly graded fine subangular GRAVEL, trace well graded medium to coarse subrounded Sand	
702					GP			
704					GP		Light gray (10YR 7/2) poorly graded fine subangular GRAVEL, trace well graded medium to coarse subrounded Sand	
706					GP			
708					GP			
710					GP		Light gray (10YR 7/2) poorly graded fine subangular GRAVEL, trace well graded medium to coarse subrounded Sand	
712					GP			
714					GP		Light gray (10YR 7/2) poorly graded fine subangular GRAVEL, trace well graded medium to coarse subrounded Sand	
716					GP			
718					GP			
720			<0.50	<0.50	GC		Gray (10YR 5/1) lean Clayey poorly graded fine subangular GRAVEL, few well graded medium to coarse subangular Sand	
722					GC			
724					GC		Gray (10YR 5/1) lean Clayey poorly graded fine subangular GRAVEL, few well graded medium to coarse subangular Sand	
726					GC			
728					GC			
730					GP		Light gray (10YR 7/1) poorly graded fine subangular GRAVEL with lean Clay, trace lean Clay and well graded medium to coarse subangular sand	
732					GP			

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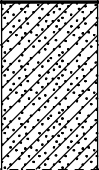
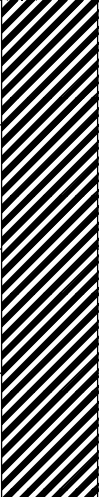
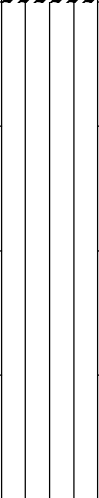
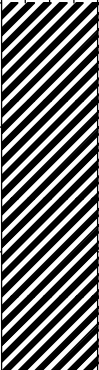
DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
734					Magothy			Light gray (10YR 7/1) poorly graded fine subangular GRAVEL with lean Clay, trace lean Clay and well graded medium to coarse subangular sand	
736						GP			
738									
740			<0.50	<0.50		SW			Grayish brown (10YR 5/2) well graded medium to coarse subrounded SAND, few poorly graded fine subrounded Gravel, trace lean clay
742									
744						SW			Grayish brown (10YR 5/2) well graded medium to coarse subangular SAND, few lean Clay
746									
748									
750						GP			Gray (10YR 6/1) poorly graded fine subangular GRAVEL, trace lean Clay
752									
754						GC			Light gray (10YR 7/1) lean Clayey poorly graded fine subangular GRAVEL
756									
758						GC			Light gray (10YR 7/1) lean Clayey poorly graded fine subangular GRAVEL
760									
762						ML			Grayish brown (10YR 5/2) well graded fine to medium Sandy SILT, trace lean clay
764			<0.50	<0.50					
766					ML			Gray (10YR 6/1) well graded fine to medium Sandy SILT, trace lean clay	
768									
770					ML			Gray (10YR 6/1) well graded fine to medium Sandy SILT, trace lean clay	
772									
774					SM			Light gray (10YR 7/1) Silty well graded fine to medium SAND, trace lean clay	
776									
778									
780			<0.50	<0.50	SP			Gray (10YR 6/1) poorly graded medium SAND, few Silt	
782									
784					SP			Gray (10YR 6/1) poorly graded medium SAND, trace Silt	
786									
788					SP			Gray (10YR 6/1) poorly graded medium SAND, trace Silt	
790									
792					SP			Gray (10YR 6/1) poorly graded medium SAND, trace Silt	
794									

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DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION	
796					Magothy	SP		Gray (10YR 6/1) poorly graded medium SAND, trace lean Clay <i>(continued)</i>	
798						SP		Dark gray (10YR 4/1) poorly graded fine SAND, trace lignite	
800			<0.50	<0.50		SP			
802									
804						CL			Gray (10YR 6/1) lean CLAY, trace poorly graded fine Sand
806									
808									
810						SC			Gray (10YR 5/1) lean Clayey poorly graded fine SAND
812									
814		0				SP			Gray (10YR 6/1) poorly graded fine SAND
816						SP			
818									
820			<0.50	<0.50		SC			Grayish brown (10YR 5/2) lean Clayey poorly graded fine SAND, trace lignite
822									
824						SP			Grayish brown (10YR 5/2) poorly graded fine SAND, few Silt, trace lignite
826									
828									
830					ML		Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite		
832									
834					ML		Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite		
836									
838									
840			<0.50	<0.50	SP		Gray (10YR 6/1) poorly graded fine SAND, trace lean Clay and lignite		
842									
844					SP		Gray (10YR 6/1) poorly graded fine SAND, trace lean Clay and lignite		
846									
848									
850					SC		Light gray (10YR 7/1) lean Clayey poorly graded fine SAND, trace lignite		
852									
854					SC		Light gray (10YR 7/1) lean Clayey poorly graded fine SAND, trace lignite		
856									

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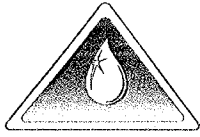
DEPTH (ft)	Gamma Ray 30 60 90	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
858					Magothy	SC		Gray (10YR 6/1) lean Clayey poorly graded fine SAND, trace lignite
860			<0.50	<0.50		SC		
862					Magothy	CH		Light gray (10YR 7/1) poorly graded fine Sandy fat CLAY, trace lignite
864								
866								
868								
870								
872								
874					Magothy	CH	Light gray (10YR 7/1) fat CLAY, trace poorly graded fine Sand and lignite	
876								
878					Magothy	CH	Light gray (10YR 7/1) fat CLAY, trace poorly graded fine Sand and lignite	
880			<4.0	<4.0				
882					Magothy	ML		Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite
884								
886								
888								
890								
892					Magothy	ML	Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite	
894								
896					Magothy	ML	Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite	
898								
900			<0.50	<0.50	Magothy	ML	Gray (10YR 5/1) poorly graded fine Sandy SILT, trace lignite	
902								
904					Magothy	CH		Light gray (10YR 7/1) poorly grade fine Sandy fat CLAY
906								
908								
910					Magothy	CH	Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY	
912								
914					Magothy	CH	Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY	
916								
918					Magothy	CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY

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DEPTH (ft)	Gamma Ray	PID (ppm)	TCE (ug/L)	PCE (ug/L)	Formation	USCS	GRAPHIC LOG	MATERIAL DESCRIPTION
918	30 60 90							
920			<2.5	<2.5	Magothy	CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY
922						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt
924						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt
926						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt
928						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt
930						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt
932						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt and lignite
934						CH		Light gray (10YR 7/1) poorly grade medium Sandy fat CLAY, trace silt and lignite
936						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
938						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
940						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
942						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
944						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
946						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt and lignite
948						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
950						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
952						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
954						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
956						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
958						CH		Light gray (10YR 7/1) well graded fine to medium Sandy fat CLAY, trace silt
960		0			Gamma	CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY
962						CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY
964		0				CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY
966						CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY
968						CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY
970		0				CH		Light gray (10YR 7/1) and light reddish brown (2.5YR 7/4) mottled fat CLAY

End of boring at 970.0 ft. bgs.

DOWN,



COMPANY: DELTA WELL & PUMP CO., INC.

LOCATION: NWIRP RED MAPLE DR

Well: VPB164

Depth Driller:

Depth Logger:

Date: 05/02/2016

Time:

Logged by: CMO

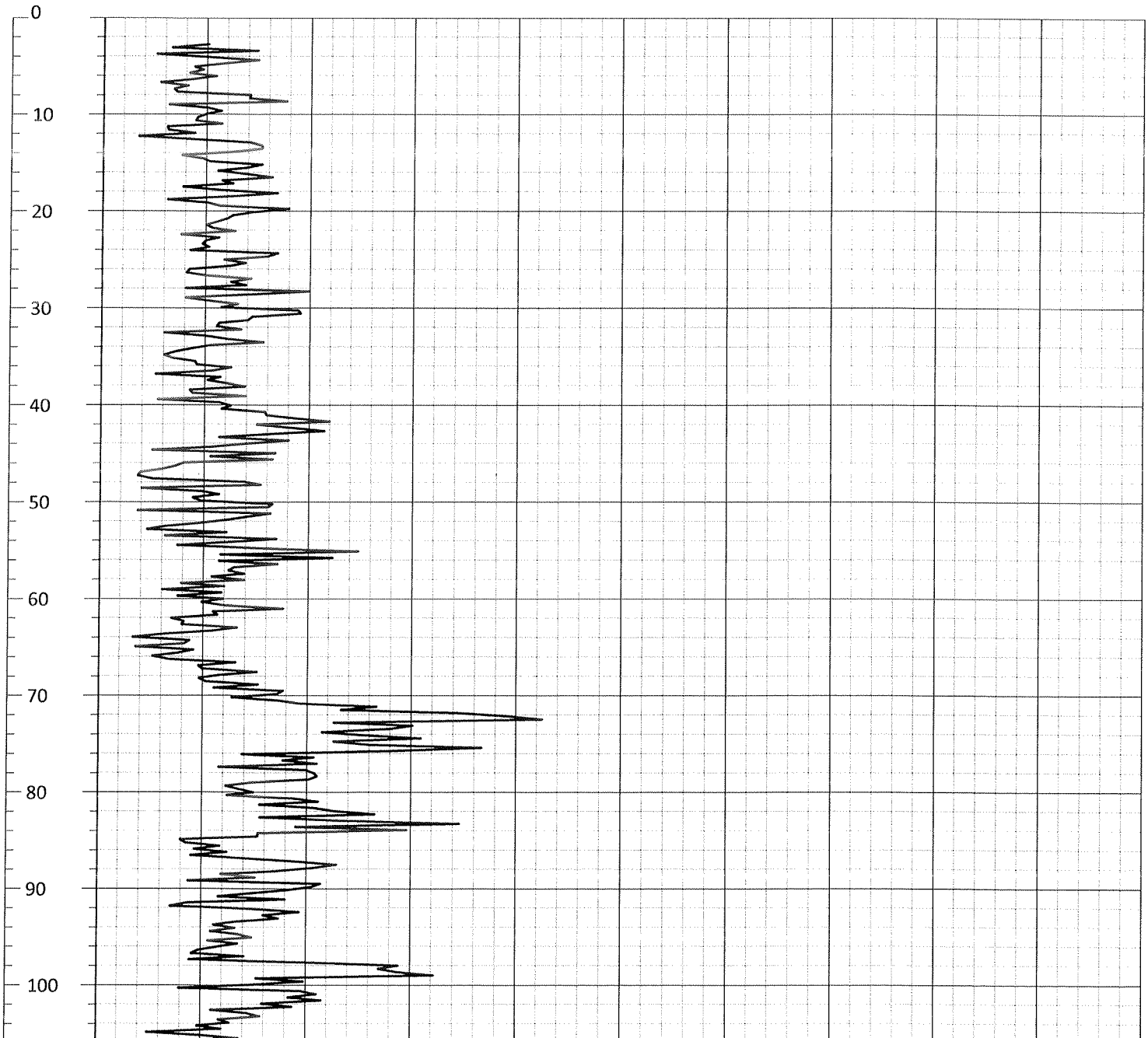
File Name: 739

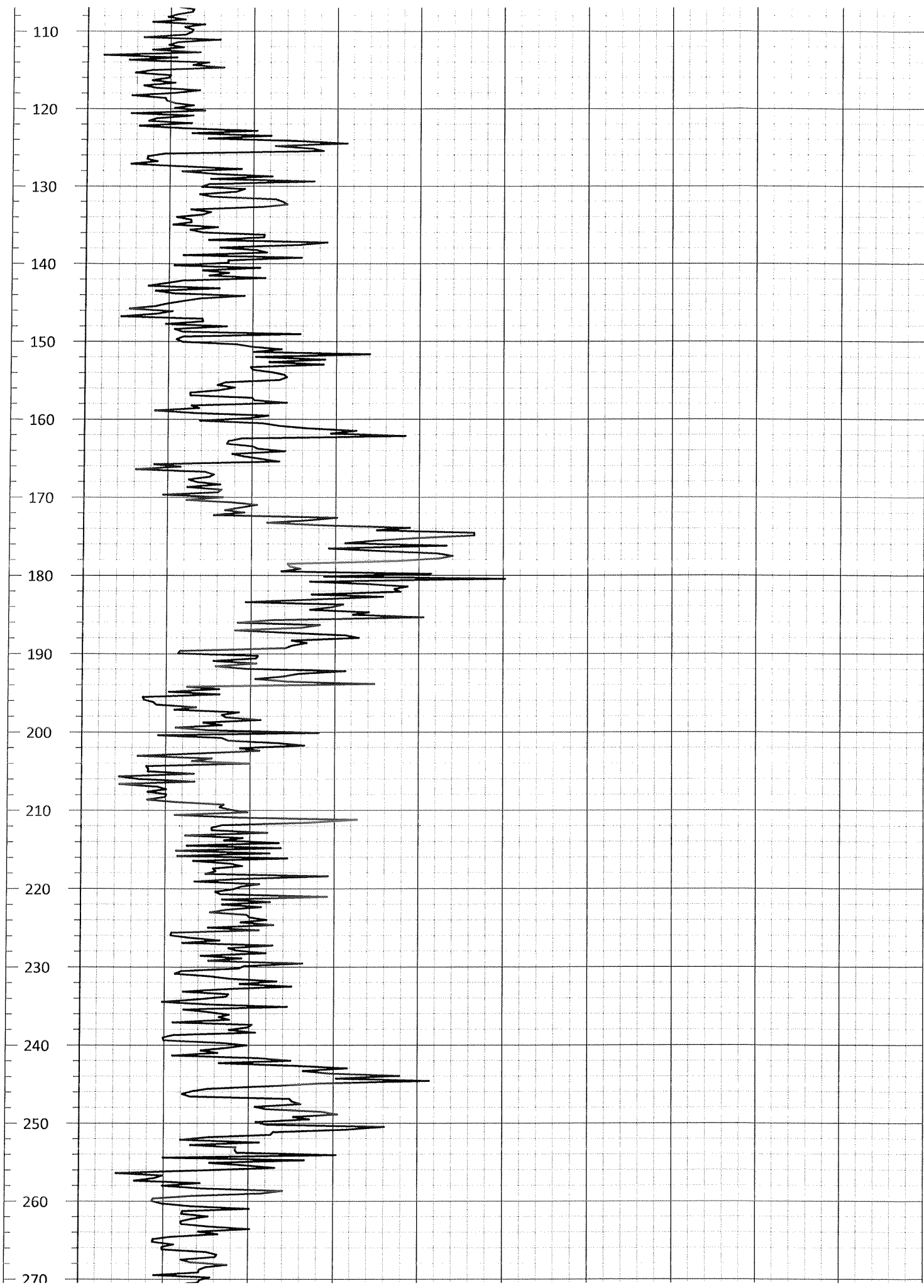
Witness: VIN

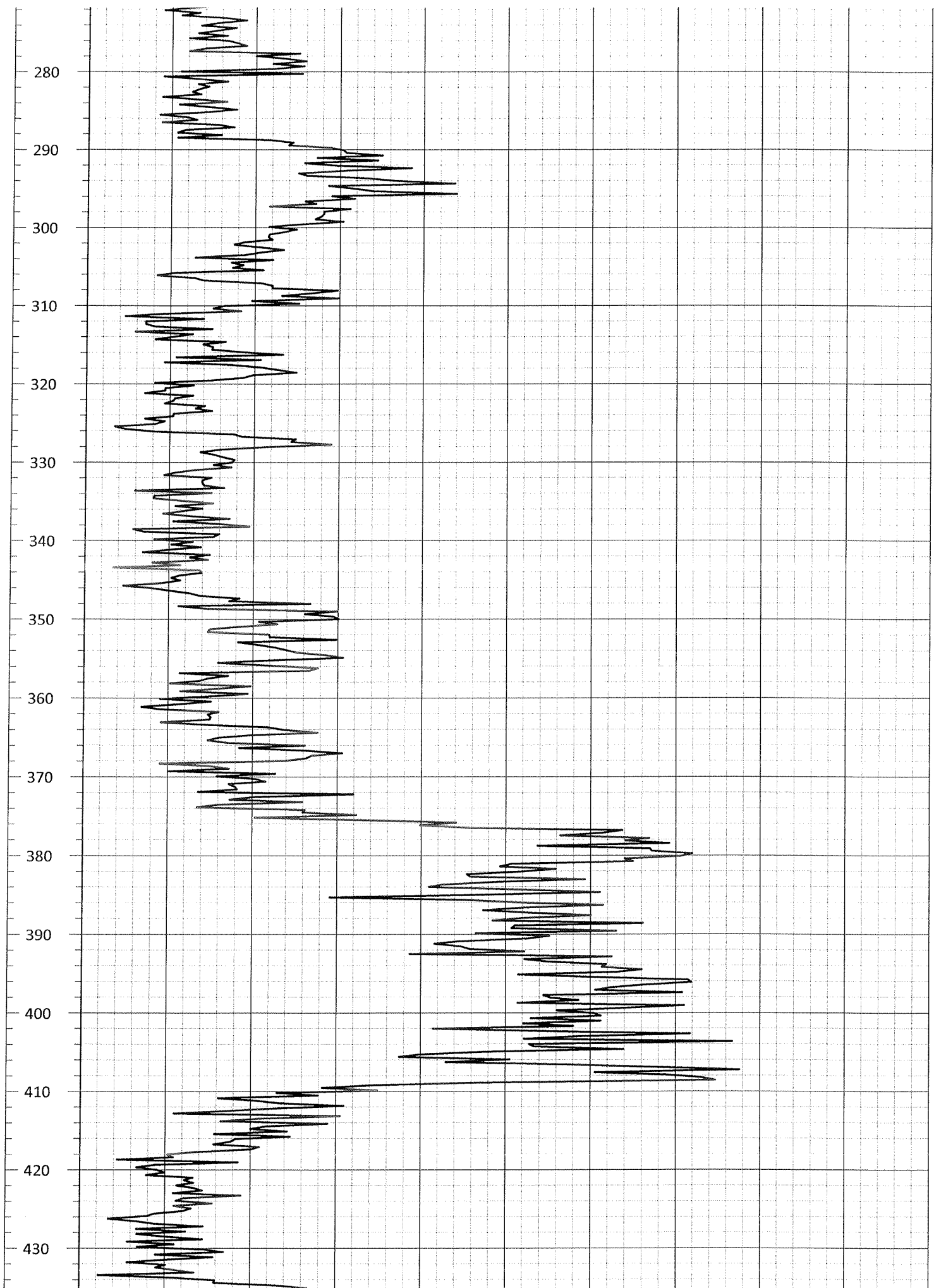
Depth (ft.) 0.0

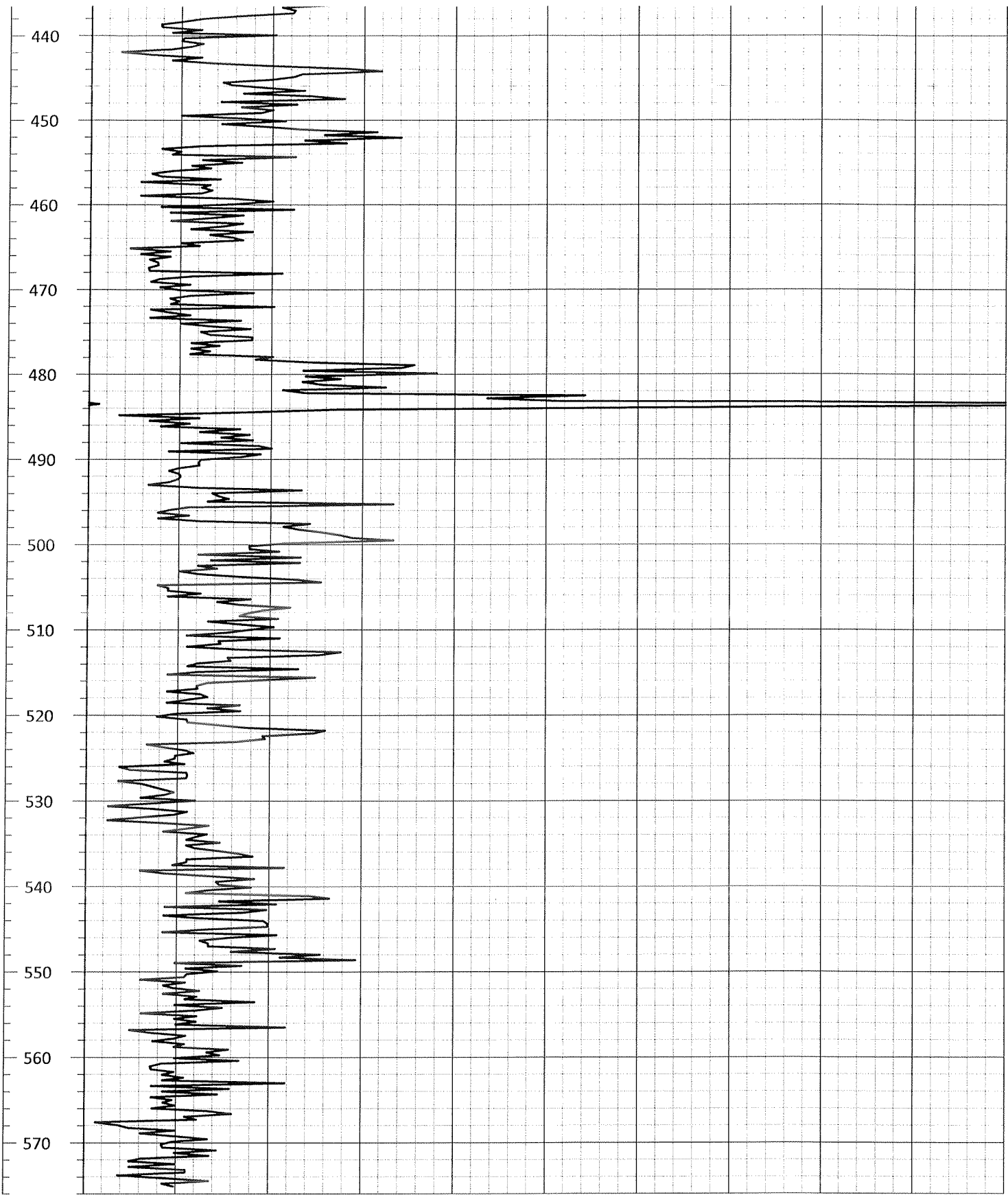
GAMMA  
(cps)

100.0



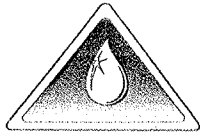






Depth (ft.)	0.0	GAMMA (cps)	100.0
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DOWN<sub>2</sub>



COMPANY: DELTA WELL & PUMP CO., INC.

LOCATION: NWIRP RED MAPLE DR

Well: VPB164

Depth Driller:

Depth Logger:

Date: 05/02/2016

Time:

Logged by: CMO

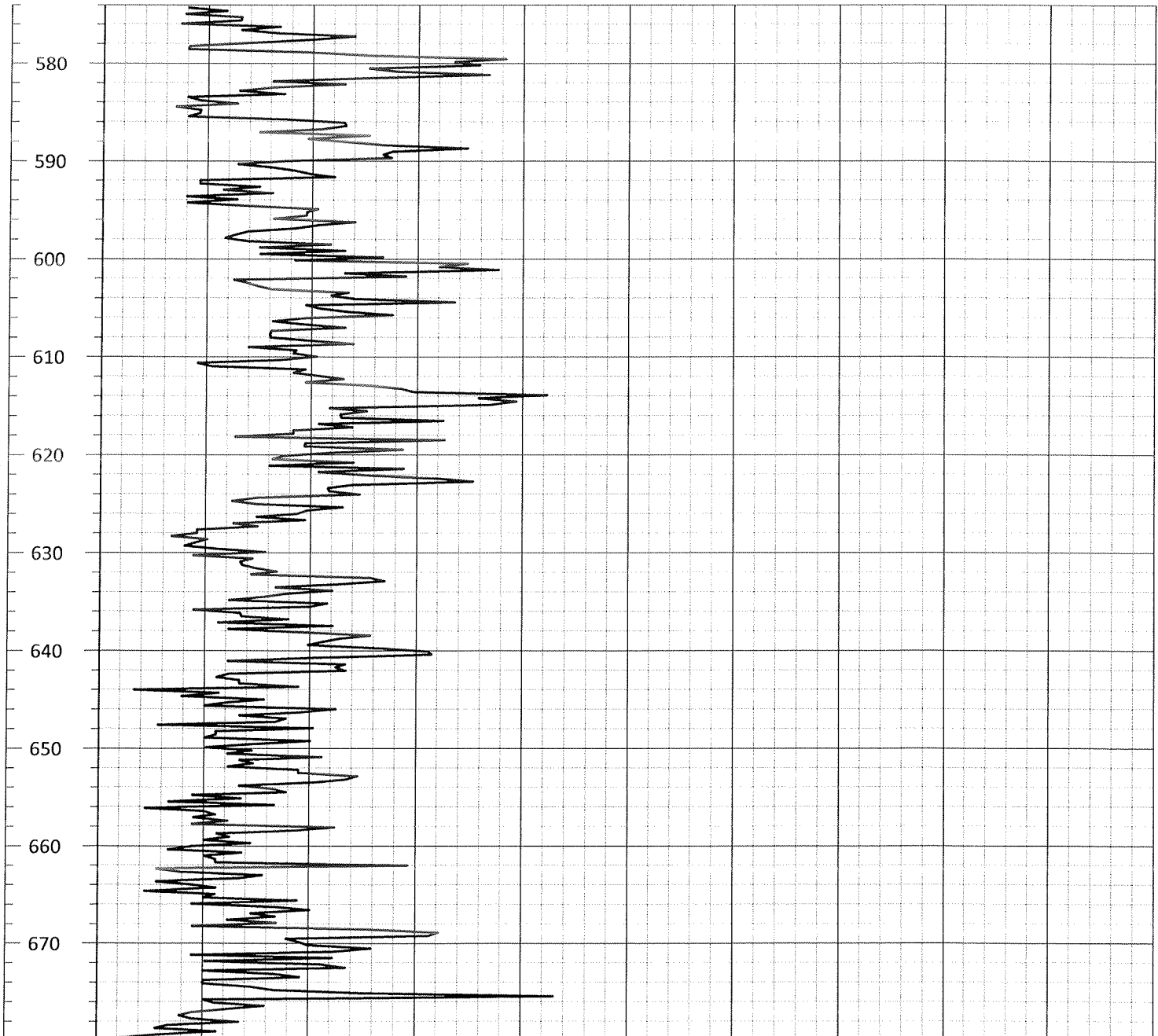
File Name: 739

Witness: VIN

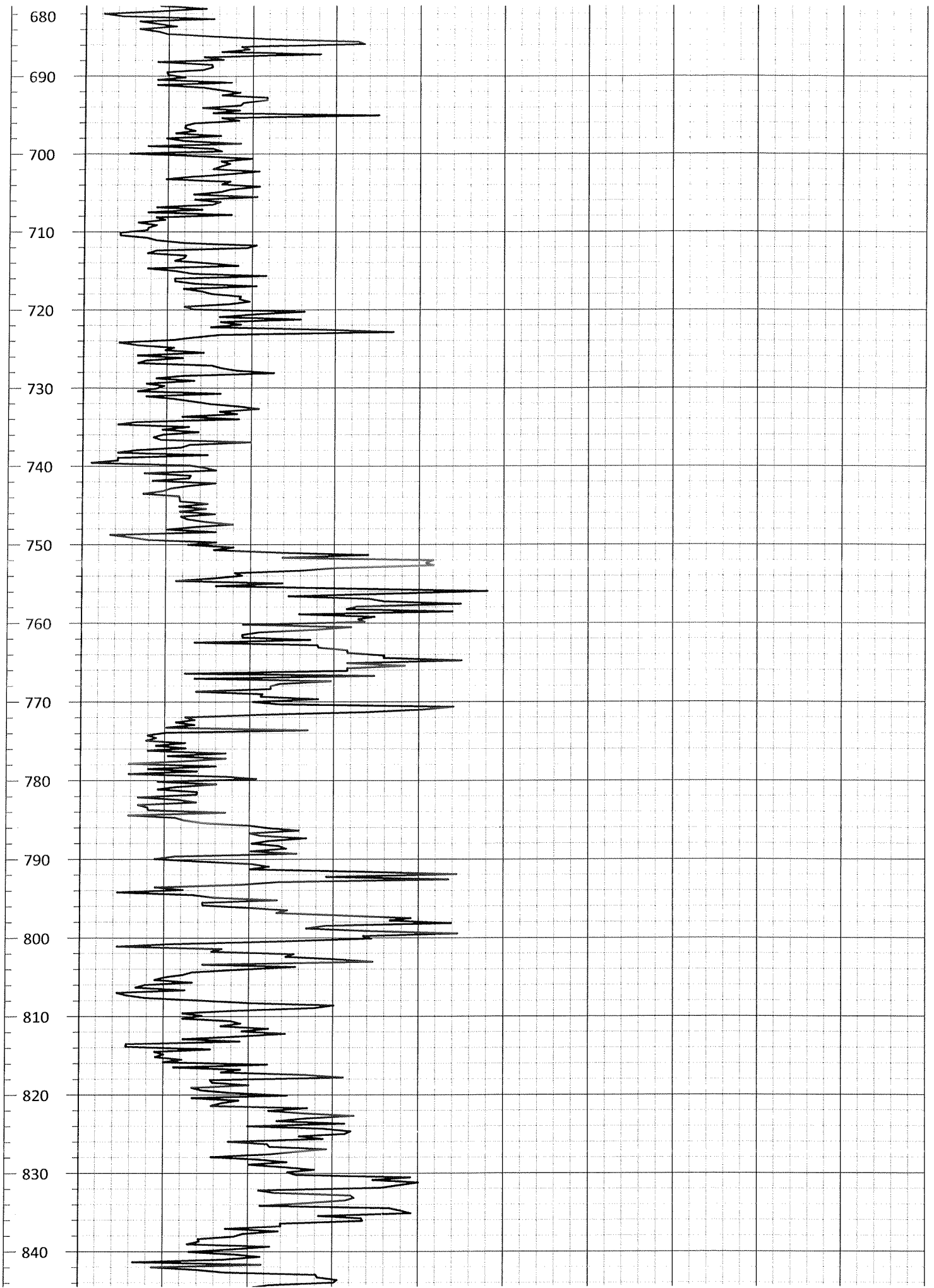
Depth (ft.) 0.0

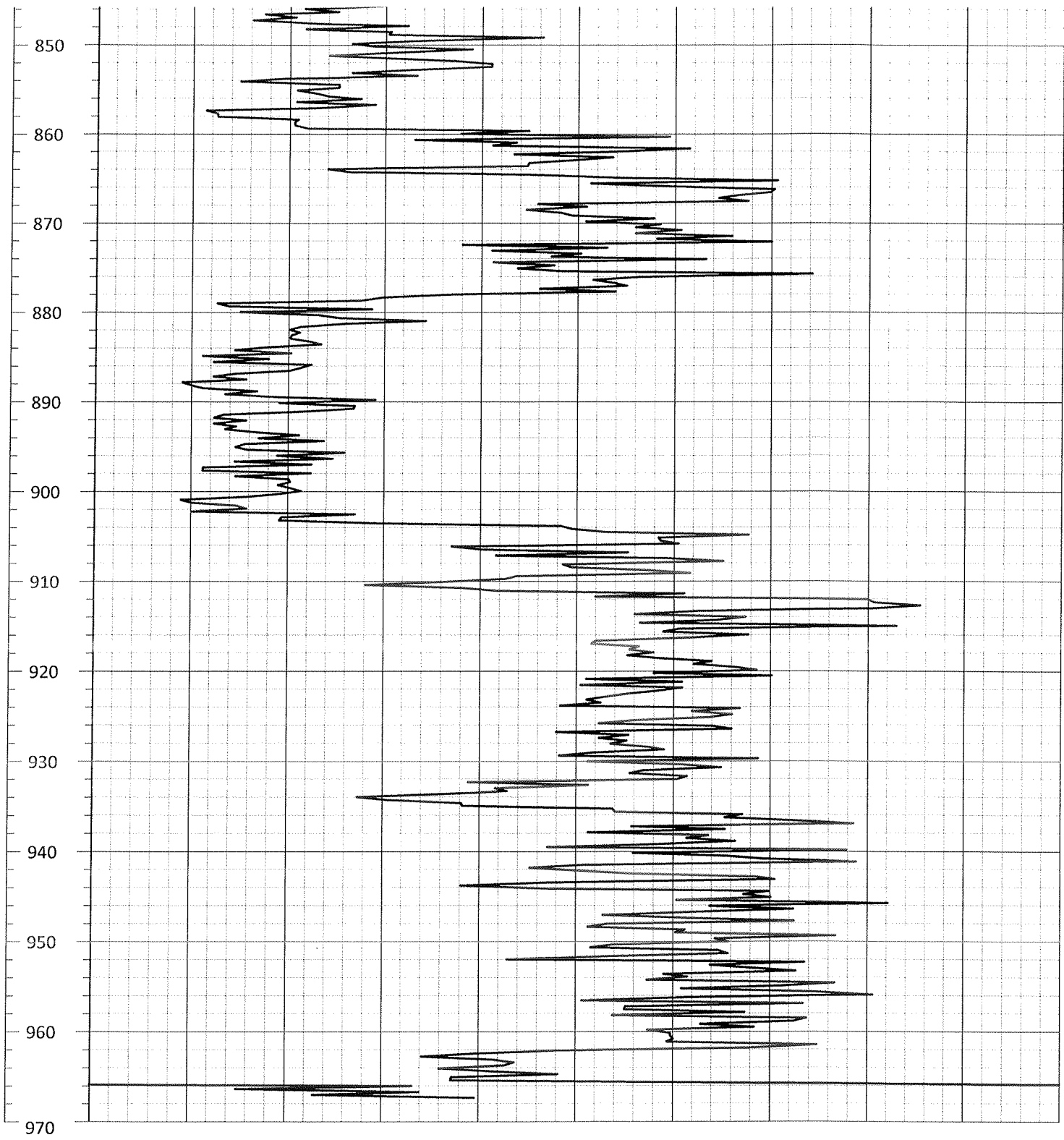
GAMMA  
(cps)

100.0







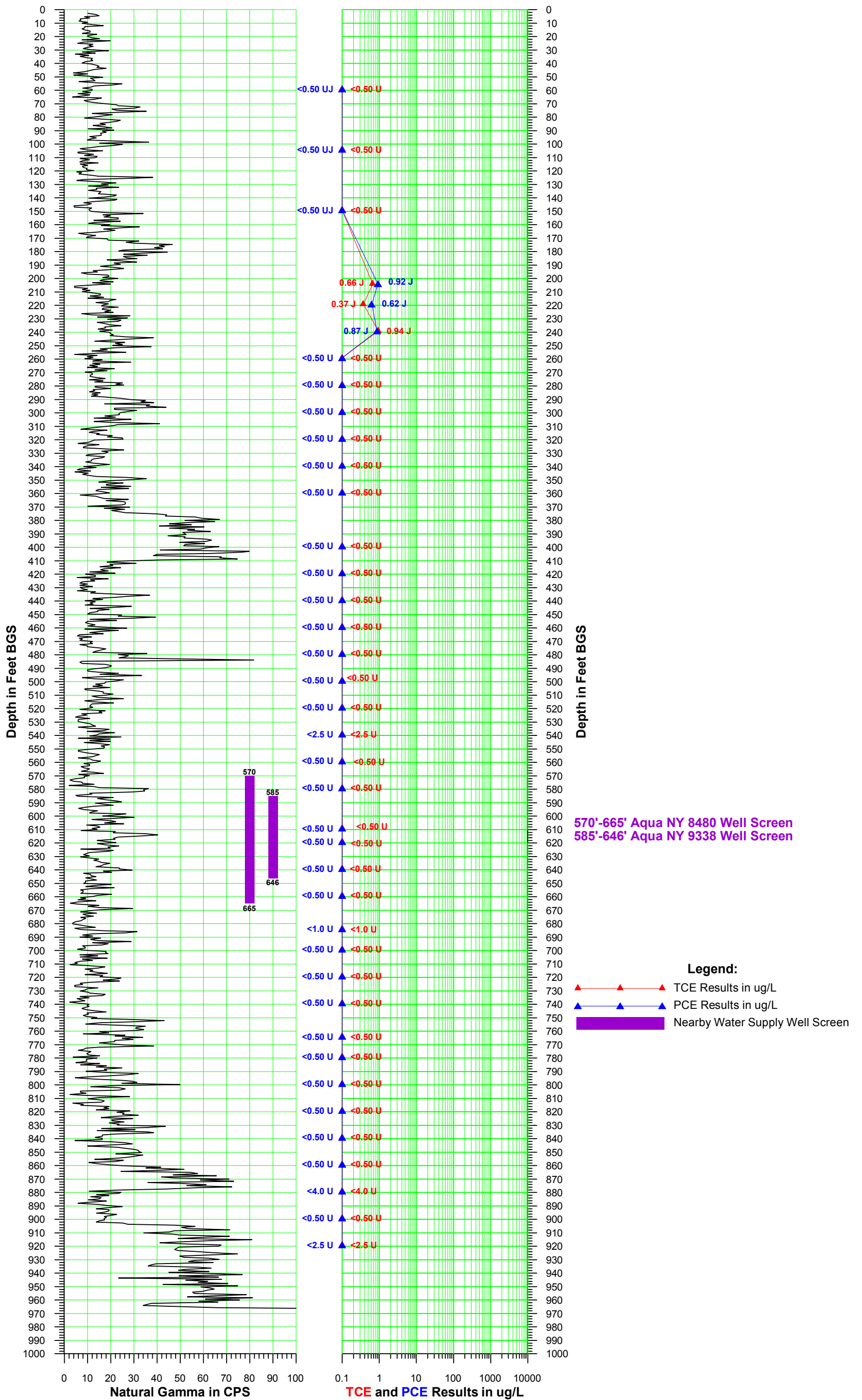


Depth (ft.)	0.0	GAMMA (cps)	100.0
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## **Section 2**

### **VPB164 Gamma and PCE/TCE Plot**

**Vertical Profile Boring VPB-164**  
**Downward Run - May 2, 2016**  
**Validated Analytical Data**



**Section 3**

**VPB164 Groundwater Sample Log Sheets**

## HYDROPUNCH LOG

VPB164 60266526 FI.WI3 Collector: V. Varricchio

NWIRP Bethpage

Sample date	Time	Temp (°C)	pH	Spec. Cond. (us/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Starting depth (ft)	Ending depth (ft)	Color
4/7/2016	10:00:00	13.5	7.83	617	4.35	43.3	>1,100	58	60	Brown
4/7/2016	12:20:00	15.9	6.72	439	4.34	299.3	560.6	103	105	Light Brown
4/11/2016	09:45:00	13.1	6.14	708	6.35	267	574.5	148	150	Light Brown
4/11/2016	14:10:00	14.1	5.69	639	4.76	278.4	516	203	205	Light brown
4/12/2016	10:00:00	13.4	5.78	587	6.25	135.2	329.3	218	220	Slightly brown
4/12/2016	11:45:00	13.4	6.03	671	3.76	373.7	300.5	238	240	Slightly brown
4/12/2016	13:30:00	13.7	6.72	403	4.06	176.9	93.17	258	260	Slightly gray
4/13/2016	09:50:00	13.2	5.34	871	3.86	151.9	>1,100	278	280	Dark gray
4/13/2016	11:45:00	14.1	5.95	436	4.74	62.7	355.4	298	300	Gray
4/13/2016	14:30:00	16	6.13	366.6	3.89	57.4	>1,100	318	320	Dark gray
4/14/2016	10:00:00	13.2	6.14	291.3	3.54	58.5	>1,100	338	340	Dark gray
4/14/2016	11:45:00	14.6	6.83	234.4	3.3	117.6	>1,100	358	360	Gray
4/15/2016	10:30:00	15.9	6.93	89.9	3.44	96.1	>1,100	398	400	Gray
4/15/2016	12:30:00	15.9	6.81	210.6	2.61	7.9	721.1	418	420	Gray
4/15/2016	14:15:00	16.2	6.58	274.2	2.02	6.7	545.4	438	440	Gray
4/18/2016	10:25:00	16.2	7.32	320.1	2	60.7	>1,100	458	560	Dark gray
4/18/2016	12:25:00	16.4	6.33	217	1.83	16.5	>1,100	478	580	Dark gray
4/18/2016	14:15:00	16.8	6.42	247.3	2.25	18.7	527.2	498	500	Gray
4/19/2016	11:00:00	17.1	6.7	187.6	2.13	58.7	407.1	518	520	Gray
4/19/2016	13:00:00	17.2	5.95	225.2	1.13	110.9	>1,100	538	540	Dark gray
4/19/2016	15:00:00	17.1	6.22	362.8	1.08	5.8	>1,100	558	560	Gray
4/20/2016	10:05:00	15.3	5.7	254.6	1.29	126.1	>1,100	578	580	Gray
4/20/2016	15:30:00	NOT ENOUGH RECOVERY FOR WQ						608	610	Brown
4/21/2016	09:50:00	14.8	6.5	268.8	2.27	53.2	653.5	618	620	Brown
4/21/2016	11:45:00	16.3	7.11	153.8	2.21	45.8	141.5	638	640	Gray
4/21/2016	13:50:00	16.4	6.7	397.4	1.52	43.5	131.6	658	660	Gray
4/22/2016	11:40:00	NOT ENOUGH RECOVERY FOR WQ						683	685	Dark gray
4/22/2016	13:45:00	16.8	6.45	159.2	2.39	47.1	136.4	698	700	Gray
4/25/2016	10:05:00	15.9	7.28	228	2.87	22.1	616.2	718	720	Dark gray
4/25/2016	12:20:00	16.2	5.29	774	2.73	367.8	>1,100	738	740	Dark gray
4/26/2016	09:35:00	15.6	2.56	809	3.22	385.4	130.8	763	765	Gray
4/26/2016	11:35:00	15.3	4.87	208.4	1.89	155.3	>1,100	778	780	Dark gray
4/26/2016	13:30:00	16.8	5.58	68.7	1.79	156.4	483.6	798	800	Brown
4/27/2016	09:50:00	14.2	5.82	117.7	1.73	140.6	817.1	818	820	Brown
4/27/2016	11:50:00	15	6.27	76.3	1.3	117.4	702	838	840	Brown
4/27/2016	13:55:00	14.9	6.3	354.4	1.17	63.8	>1,100	858	860	Dark brown
4/28/2016	09:45:00	NOT ENOUGH RECOVERY FOR WQ						878	880	Dark brown
4/28/2016	11:40:00	NOT ENOUGH RECOVERY FOR WQ						898	900	Dark gray
4/28/2016	14:00:00	15.3	6.18	213.5	1.32	97.8	>1,100	918	920	Dark gray

## **Section 4**

### **VPB164 Analytical Data Validation**

- Analytical Data Sheets
- Chain of Custody Records
- Validation Letter and Table



**DATA VALIDATION REPORT**

Project:	Regional Groundwater Investigation — NWIRP Bethpage	
Laboratory:	Katahdin Analytical	
Sample Delivery Group:	BETHPAGE VPB164	
Analyses/Method:	Volatile Organic Compounds (VOCs) by U.S. EPA SW-846 Method 8260C, Total Organic Carbon (TOC) by U.S. EPA SW-846 Method 9060A, and Standard Method 5310B for Total Organic Carbon by High-Temperature Combustion	
Validation Level:	3	
Project Number:	0888812477.SA.DV	
Prepared by:	Dana Miller/Resolution Consultants	Completed on: 06/30/2016
Reviewed by:	Tina Clemmey/Resolution Consultants	File Name: BETHPAGE VPB164_8260C_9060A_5310B

**SUMMARY**

This report summarizes data review findings for samples listed below, collected by Resolution Consultants from the Regional Groundwater Investigation — NWIRP Bethpage Site on 7 to 28 April 2016 in accordance with the following Sampling and Analysis Plans:

- *Sampling and Analysis Plan, Bethpage, New York.* (Resolution Consultants, April 2013).
- *UFP SAP Addendum, Installation of Vertical Profile Borings and Monitoring Wells, Operable Unit 2, NWIRP Bethpage, New York.* (Resolution Consultants, November 2013).
- *UFP SAP Addendum, Inclusion of Additional Target Analytes for Volatile Organics Analyses, NWIRP Bethpage OU2, Bethpage, New York.* (Resolution Consultants, August 2014).

Sample ID	Lab ID	Matrix/Sample Type	Analysis
VPB164-GW-040716-58-60	SJ2369-1	Groundwater	8260C
VPB164-TB-040716	SJ2369-2	Trip Blank	8260C
VPB164-GW-040716-103-105	SJ2369-3	Groundwater	8260C
VPB164-TB-041116	SJ2438-1	Trip Blank	8260C
VPB164-GW-041116-148-150	SJ2438-2	Groundwater	8260C
VPB164-GW-041116-203-205	SJ2438-3	Groundwater	8260C
VPB164-FB-041316	SJ2582-10	Field Blank	8260C, 5310B
VPB164-GW-041316-318-320	SJ2582-11RA	Groundwater	8260C
VPB164-GW-041416-338-340	SJ2582-12RA	Groundwater	8260C
VPB164-GW-D-041416	SJ2582-13RA	Duplicate of VPB164-GW-041416-338-340	8260C



<b>Sample ID</b>	<b>Lab ID</b>	<b>Matrix/Sample Type</b>	<b>Analysis</b>
VPB164-GW-041416-358-360	SJ2582-14RA	Groundwater	8260C
VPB164-TB-041216	SJ2582-1RA	Trip Blank	8260C
VPB164-GW-041216-218-220	SJ2582-2RA	Groundwater	8260C
VPB164-GW-041216-238-240	SJ2582-3RA	Groundwater	8260C
VPB164-GW-041216-258-260	SJ2582-4RA	Groundwater	8260C
VPB164-SOIL-041216-263-265	SJ2582-5	Soil	9060A
VPB164-SOIL-D-041216	SJ2582-6	Duplicate of VPB164-SOIL-041216-263-265	9060A
VPB164-EB-041216	SJ2582-7RA	Equipment Blank	8260C, 5310B
VPB164-GW-041316-278-280	SJ2582-8RA	Groundwater	8260C
VPB164-GW-041316-298-300	SJ2582-9RA	Groundwater	8260C
VPB164-GW-041516-398-400	SJ2603-1	Groundwater	8260C
VPB164-TB-041516	SJ2603-2	Trip Blank	8260C
VPB164-GW-041516-418-420	SJ2603-3	Groundwater	8260C
VPB164-GW-041516-438-440	SJ2603-4	Groundwater	8260C
VPB164-GW-041816-458-460	SJ2603-5	Groundwater	8260C
VPB164-GW-041816-478-480	SJ2603-6	Groundwater	8260C
VPB164-GW-041816-498-500	SJ2603-7	Groundwater	8260C
VPB164-TB-041916	SJ2778-1	Trip Blank	8260C
VPB164-EB-042116	SJ2778-10	Equipment Blank	8260C
VPB164-GW-042116-658-660	SJ2778-11	Groundwater	8260C
VPB164-GW-042216-683-685	SJ2778-12DL	Groundwater	8260C
VPB164-GW-042216-698-700	SJ2778-13RA	Groundwater	8260C
VPB164-GW-041916-518-520	SJ2778-2	Groundwater	8260C
VPB164-GW-041916-538-540	SJ2778-3DL	Groundwater	8260C
VPB164-GW-041916-558-560	SJ2778-4	Groundwater	8260C
VPB164-GW-042016-578-580	SJ2778-5	Groundwater	8260C
VPB164-GW-042016-608-610	SJ2778-6	Groundwater	8260C
VPB164-GW-042116-618-620	SJ2778-7	Groundwater	8260C
VPB164-GW-042116-638-640	SJ2778-8	Groundwater	8260C
VPB164-GW-D-042116	SJ2778-9	Duplicate of VPB164-GW-042116-638-640	8260C
VPB164-GW-042516-718-720	SJ2835-1	Groundwater	8260C
VPB164-TB-042516	SJ2835-2	Trip Blank	8260C
VPB164-GW-042516-738-740	SJ2835-3RA	Groundwater	8260C
VPB164-GW-042616-763-765	SJ2835-4	Groundwater	8260C
VPB164-GW-042616-778-780	SJ2835-5	Groundwater	8260C
VPB164-GW-042616-798-800	SJ2835-6	Groundwater	8260C
VPB164-TB-042716	SJ2923-1	Trip Blank	8260C
VPB164-GW-042716-818-820	SJ2923-2	Groundwater	8260C

Sample ID	Lab ID	Matrix/Sample Type	Analysis
VPB164-GW-042716-838-840	SJ2923-3	Groundwater	8260C
VPB164-GW-042716-858-860	SJ2923-4	Groundwater	8260C
VPB164-GW-042816-878-880	SJ2923-5DL	Groundwater	8260C
VPB164-GW-042816-898-900	SJ2923-6	Groundwater	8260C
VPB164-GW-042816-918-920	SJ2923-7DL	Groundwater	8260C

Data validation activities were conducted using the following guidance documents: *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, specifically Method 8260C, Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry* (U.S. EPA, 2006), *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846, specifically Method 9060A, Total Organic Carbon* (U.S. EPA, 1996), *Method SM5310B, Total Organic Carbon by High-Temperature Combustion, U.S. Environmental Protection Agency (U.S. EPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (NFG, June 2008), *U.S. Environmental Protection Agency (U.S. EPA) Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review* (NFG, January 2010), and Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 4.2 (October 2010). In the absence of method-specific information, laboratory quality control (QC) limits, project-specific requirements and/or professional judgment were used as appropriate.

## REVIEW ELEMENTS

The data were evaluated based on the following parameters (where applicable to the method):

- ✓ Holding times and sample preservation
- ✓ Gas chromatography/Mass spectrometer performance checks
- ✗ Initial calibration (ICAL) /initial calibration verification (ICV)/continuing calibration verification (CCV)
- ✗ Laboratory blanks/field blanks/equipment blanks/trip blanks
- ✓ Surrogate spike recoveries
- ✓ Matrix spike and/or matrix spike duplicate results
- ✗ Laboratory control sample/laboratory control sample duplicate results
- ✗ Field duplicates
- ✓ Internal standards
- ✓ Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. Acceptable data parameters for which all criteria were met and no qualification was performed and non-conformance or other issues that were noted during validation, but did not result in qualification of data are not discussed further. The symbol (X) indicates that a QC non-conformance resulted in the qualification of data. Any QC non-conformance that resulted in the qualification of data is discussed below.

## RESULTS

### Initial Calibration/Continuing Calibration Verification

Calibration data were reviewed for conformance with the QC acceptance criteria to ensure that:

- The ICAL percent relative standard deviation, correlation coefficient/coefficient of determination, and/or response factor method acceptance criteria were met
- The ICV standard percent recovery acceptance criteria were met
- The CCV method percent difference or percent drift and response factor acceptance criteria were met
- The retention time method acceptance criteria were met

Data qualification to the analytes associated with the specific ICAL was as follows:

#### ICAL Linearity Non-conformance:

Criteria	Actions	
	Detected Results	Non-detected Results
%RSD > 15% and quantitation based on mean response factor	J	UJ

**Notes:**

%RSD = Relative standard deviation  
 J = Estimated  
 UJ = Undetected and estimated

Data qualification to the analytes associated with the specific ICV was as follows:

#### ICV Recovery Non-conformance:

Criteria	Actions	
	Detected Results	Non-detected Results
Recovery > 120%	J	UJ
Recovery < 80%	J	UJ

**Notes:**

J = Estimated  
 UJ = Undetected and estimated

Data qualification to the analytes associated with the specific CCV was as follows:

**CCV Linearity Non-conformance:**

Criteria	Actions	
	Detected Results	Non-detected Results
%Difference or %Drift > 20%	J	UJ

**Notes:**

J = Estimated  
 UJ = Undetected and estimated

**Laboratory Blanks/Equipment Blanks/ Field Blanks/Trip Blanks**

Laboratory blanks, equipment blanks, field blanks, and trip blanks were analyzed with samples to assess contamination imparted by sample preparation and/or analysis. All results associated with a particular blank were evaluated to determine whether there was an inherent variability in the data, or if a problem was an isolated occurrence that did not affect the data. Samples were flagged in accordance with *Functional Guidelines* (shown below) where detections were not believed to be site-related.

**Blank Non-conformance Charts:**

<b>For common lab contaminants (methylene chloride, acetone, 2-butanone):</b>			
Blank type	Blank result	Sample result	Action for samples
Method, Storage, Trip, Field, or Equipment	Detects	Not detected	No qualification
	≤ 2x LOQ	< 2x LOQ	Report sample LOQ value with a U
		≥ 2x LOQ and ≤ 4x the LOQ	Report the sample result with a U**
		≥ 4x the LOQ	No qualifications
	> 2x LOQ	< LOD	Report sample LOD value with a U**
		≥ LOD and < 2x LOQ	Report sample LOQ value with a U
		≥ 2x LOQ and < blank contamination	Report the blank result with a U or reject the sample result as unusable R
		≥ 2x LOQ and ≥ blank contamination	If the result is ≤ 2x blank result, report the sample result U.** If the result is > 2x blank result, no qualification is required. **
<b>**Based on Resolution Consultants professional judgment</b>			

<b>For all other compounds:</b>			
<b>Blank type</b>	<b>Blank result</b>	<b>Sample result</b>	<b>Action for samples</b>
Method, Storage, Trip, Field, or Equipment	Detects	Not detected	No qualification
	< 2x LOQ	< 2x LOQ	Report sample LOQ value with a U
		≥ 2x LOQ	Use professional judgment
	> 2x LOQ	< 2x LOQ	Report sample LOQ value with a U
		≥ 2x LOQ and < blank contamination	Report the blank result with a U or reject the sample result as unusable R
		≥ 2x LOQ and ≥ blank contamination	If the result is ≤ 2x blank result, report the sample result U. If the result is > 2x blank result, no qualification is required.
	= 2x LOQ	< 2x LOQ	Report sample LOQ value with a U
		≥ 2x LOQ	Use professional judgment
	Gross contamination	Detects	Qualify results as unusable R

**Notes:**

LOQ	=	Limit of quantitation
LOD	=	Limit of detection
U	=	Undetected
R	=	Rejected

**Laboratory Control Samples / Laboratory Control Sample Duplicate**

LCS %Rs is used to monitor the overall accuracy and performance of each step during analysis, including sample preparation. The laboratory analyzed LCSs in duplicate when matrix spike/matrix spike duplicates were not reported. In these instances, the laboratory determined precision between the duplicated values. Data qualification to the analytes associated with the specific LCS/LCS duplicate was as follows:

**Laboratory Control Sample / Laboratory Control Sample Duplicate Non-conformance Chart:**

<b>Criteria</b>	<b>Action</b>	
	<b>Detected</b>	<b>Non-detected</b>
% R or RPD > UL	J	No qualification
%R < LL	J	UJ
%R < 20%	J	Rejected

**Notes:**

%R	=	Percent recovery
RPD	=	Relative percent difference
UL	=	Upper limit
LL	=	Lower limit
J	=	Estimated
UJ	=	Undetected and estimated

**Field Duplicate**

Field duplicate RPDs were reviewed for conformance with the Resolution Consultants QC criteria of  $\leq 30\%$  for aqueous matrices and  $\leq 50\%$  for solid matrices. These criteria apply if both results were greater than two times the limit of quantitation (LOQ). Data qualification to the analytes associated with the specific field duplicate RPDs was as follows:

**Field Duplicate Non-conformances Chart:**

Criteria	RPD	Action	
		Detected	Non-
Sample and duplicate are not detected	Not calculable (NC)	No qualification	No
Sample and duplicate results $\geq 2x$ LOQ	>30 (aqueous)	J	Not Applicable
	>50 (solids)		
If sample or duplicate result is $>2x$ LOQ and the other is not detected	NC	J	UJ
If sample or duplicate result is $<2x$ LOQ and the other is not detected	NC	No qualification	No

**Notes:**

- LOQ = Limit of quantitation
- J = Estimated value
- UJ = Undetected and estimated

**Qualifications Actions**

The data were reviewed independently from the laboratory to assess data quality. All compounds detected at concentrations less than the limit of quantitation but greater than the method detection limit were qualified by the laboratory as estimated (J). This "J" qualifier was retained during data validation. Any sample that was analyzed at a dilution because of high concentrations of target or non-target analytes was checked to confirm that the results and/or sample-specific limit of quantitation and limit of detections were adjusted accordingly by the laboratory.

No results were rejected; therefore, analytical completeness was calculated to be 100 percent. Data not qualified during data review are considered usable by the project. The remaining results qualified as estimated may be high or low, but the data are usable for their intended purpose, according to U.S. EPA and Department of Defense guidelines. Final data review qualifiers used to describe results and how they should be interpreted by the end data user are provided in Attachment A and Attachment B. Attachment C provides final results after data review.



**ATTACHMENTS**

Attachment A: Qualifier Codes and Explanations

Attachment B: Reason Codes and Explanations

Attachment C: Final Results after Data Review

**Attachment A**  
**Qualifier Codes and Explanations**



Qualifier	Explanation
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual quantitation limit necessary to accurately and precisely measure the analyte in the sample.
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

**Attachment B**  
**Reason Codes and Explanations**

Reason Code	Explanation
be	Equipment blank contamination
bf	Field blank contamination
bl	Laboratory blank contamination
bm	Missing blank information
bt	Trip blank contamination
c	Calibration issue
cr	Chromatographic resolution
d	Reporting limit raised due to chromatographic interference
dt	Dissolved result > total over limit
e	Ether interference
ej	Above calibration range; result estimated.
f	Presumed contamination from FB or ER.
fd	Field duplicate RPDs
h	Holding times
hs	Headspace greater than 6mm in all sample vials
i	Internal standard areas
ii	Injection internal standard area or retention time exceedance
it	Instrument tune
k	Estimated maximum possible concentrations (EMPC)
l	LCS recoveries
lc	Labeled compound recovery
ld	Laboratory duplicate RPDs
lp	Laboratory control sample/laboratory control sample duplicate RPDs
m	Matrix spike recovery
mc	Deviation from the method
md	MS/MSD RPDs
nb	Negative laboratory blank contamination
p	Chemical preservation issue
p-h	Uncertainty near detection limit (< Reporting Limit), historical reason code applied.
pe	Post Extraction Spike
q	Quantitation issue
r	Dual column RPD
rt	SIM ions not within + 2 seconds
s	Surrogate recovery
sp	Sample preparation issue
su	Evidence of ion suppression
t	Temperature Preservation Issue
x	Low % solids
y	Serial dilution results
z	ICS results

**Attachment C**  
**Final Results after Data Review**

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2369		
Lab ID				SJ2369-1		
Sample ID				VPB164-GW-040716-58-60		
Sample Date				4/7/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.8	J	c
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	UJ	bt,c
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	1.4		
8260C	CHLOROMETHANE	74-87-3	UG_L	1	UJ	l,c
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.74	J	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	UJ	c
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2369		
Lab ID				SJ2369-3		
Sample ID				VPB164-GW-040716-103-105		
Sample Date				4/7/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.2	J	c
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	UJ	bt,c
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	1.4		
8260C	CHLOROMETHANE	74-87-3	UG_L	1	UJ	l,c
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	UJ	c
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2438		
Lab ID				SJ2438-2		
Sample ID				VPB164-GW-041116-148-150		
Sample Date				4/11/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.39	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	UJ	c
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	8.8	J	c
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROETHANE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	UJ	c
8260C	CHLOROFORM	67-66-3	UG_L	1.6		
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	UJ	c
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.54	J	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	UJ	c
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	UJ	c
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2438		
Lab ID				SJ2438-3		
Sample ID				VPB164-GW-041116-203-205		
Sample Date				4/11/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.62	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	UJ	c
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	4.4	J	c
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	UJ	c
8260C	CHLOROFORM	67-66-3	UG_L	0.33	J	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	UJ	c
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.9	J	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	UJ	c
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.92	J	c
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.66	J	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-11RA		
Sample ID				VPB164-GW-041316-318-320		
Sample Date				4/13/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	5.7		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	1.7		
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-12RA		
Sample ID				VPB164-GW-041416-338-340		
Sample Date				4/14/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	8		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	1.1		
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-13RA		
Sample ID				VPB164-GW-D-041416		
Sample Date				4/14/2016		
Sample Type				Field Duplicate		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	8.8		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-14RA		
Sample ID				VPB164-GW-041416-358-360		
Sample Date				4/14/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	6.6		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	1.8		
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-2RA		
Sample ID				VPB164-GW-041216-218-220		
Sample Date				4/12/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.28	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.28	J	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.44	J	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.72	J	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.62	J	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.37	J	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-3RA		
Sample ID				VPB164-GW-041216-238-240		
Sample Date				4/12/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.54	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	0.4	J	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.78	J	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.87	J	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.94	J	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-4RA		
Sample ID				VPB164-GW-041216-258-260		
Sample Date				4/12/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.93	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	1.2		
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	0.7	J	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-8RA		
Sample ID				VPB164-GW-041316-278-280		
Sample Date				4/13/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.3	J	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1.4	J	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-9RA		
Sample ID				VPB164-GW-041316-298-300		
Sample Date				4/13/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.53	J	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-1		
Sample ID				VPB164-GW-041516-398-400		
Sample Date				4/15/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	11		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-3		
Sample ID				VPB164-GW-041516-418-420		
Sample Date				4/15/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	3.9	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-4		
Sample ID				VPB164-GW-041516-438-440		
Sample Date				4/15/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	4.3	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group Lab ID Sample ID Sample Date Sample Type				SJ2603 SJ2603-5 VPB164-GW-041816-458-460 4/18/2016 Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2	J	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	13		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.32	J	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-6		
Sample ID				VPB164-GW-041816-478-480		
Sample Date				4/18/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	4.3	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-7		
Sample ID				VPB164-GW-041816-498-500		
Sample Date				4/18/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	5.4		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-11		
Sample ID				VPB164-GW-042116-658-660		
Sample Date				4/21/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-12DL		
Sample ID				VPB164-GW-042216-683-685		
Sample Date				4/22/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	1	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	1	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	1	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	1	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	1	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	1	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	1	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	1.5	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	1	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	1	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	1	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	2	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	1	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	1	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	1	U	
8260C	2-BUTANONE	78-93-3	UG_L	5	U	
8260C	2-HEXANONE	591-78-6	UG_L	5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	5	U	
8260C	ACETONE	67-64-1	UG_L	5	U	bt
8260C	BENZENE	71-43-2	UG_L	1	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	1	U	
8260C	BROMOFORM	75-25-2	UG_L	1	U	
8260C	BROMOMETHANE	74-83-9	UG_L	2	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	1	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	1	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	1	U	
8260C	CHLOROETHANE	75-00-3	UG_L	2	U	
8260C	CHLOROFORM	67-66-3	UG_L	1	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	2	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	1	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	1	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	1	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	1	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	2	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	1	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	1	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	2	U	
8260C	METHYL ACETATE	79-20-9	UG_L	1.5	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	1	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	1	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	5	U	
8260C	O-XYLENE	95-47-6	UG_L	1	U	
8260C	STYRENE	100-42-5	UG_L	1	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	1	U	
8260C	TOLUENE	108-88-3	UG_L	1	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	1	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	1	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	1	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	2	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	2	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	3	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-13RA		
Sample ID				VPB164-GW-042216-698-700		
Sample Date				4/22/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group Lab ID Sample ID Sample Date Sample Type				SJ2778 SJ2778-2 VPB164-GW-041916-518-520 4/19/2016 Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.49	J	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-3DL		
Sample ID				VPB164-GW-041916-538-540		
Sample Date				4/19/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	2.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	2.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	2.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	2.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	2.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	2.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	2.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	3.8	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	2.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	2.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	2.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	5	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	2.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	2.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	2.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	12	U	
8260C	2-HEXANONE	591-78-6	UG_L	12	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	12	U	
8260C	ACETONE	67-64-1	UG_L	12	U	
8260C	BENZENE	71-43-2	UG_L	2.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	2.5	U	
8260C	BROMOFORM	75-25-2	UG_L	2.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	5	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	2.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	2.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	2.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	5	U	
8260C	CHLOROFORM	67-66-3	UG_L	2.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	5	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	2.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	2.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	2.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	2.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	5	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	2.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	2.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	5	U	
8260C	METHYL ACETATE	79-20-9	UG_L	3.8	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	2.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	12	U	
8260C	O-XYLENE	95-47-6	UG_L	2.5	U	
8260C	STYRENE	100-42-5	UG_L	2.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	2.5	U	
8260C	TOLUENE	108-88-3	UG_L	2.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	2.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	2.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	2.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	5	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	5	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	7.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-4		
Sample ID				VPB164-GW-041916-558-560		
Sample Date				4/19/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-5		
Sample ID				VPB164-GW-042016-578-580		
Sample Date				4/20/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-6		
Sample ID				VPB164-GW-042016-608-610		
Sample Date				4/20/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-7		
Sample ID				VPB164-GW-042116-618-620		
Sample Date				4/21/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-8		
Sample ID				VPB164-GW-042116-638-640		
Sample Date				4/21/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group Lab ID Sample ID Sample Date Sample Type				SJ2778 SJ2778-9 VPB164-GW-D-042116 4/21/2016 Field Duplicate		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-1		
Sample ID				VPB164-GW-042516-718-720		
Sample Date				4/25/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.44	J	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-3RA		
Sample ID				VPB164-GW-042516-738-740		
Sample Date				4/25/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-4		
Sample ID				VPB164-GW-042616-763-765		
Sample Date				4/26/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-5		
Sample ID				VPB164-GW-042616-778-780		
Sample Date				4/26/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-6		
Sample ID				VPB164-GW-042616-798-800		
Sample Date				4/26/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-2		
Sample ID				VPB164-GW-042716-818-820		
Sample Date				4/27/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-3		
Sample ID				VPB164-GW-042716-838-840		
Sample Date				4/27/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-4		
Sample ID				VPB164-GW-042716-858-860		
Sample Date				4/27/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-5DL		
Sample ID				VPB164-GW-042816-878-880		
Sample Date				4/28/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	4	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	4	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	4	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	4	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	4	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	4	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	4	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	6	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	4	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	4	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	4	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	8	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	4	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	4	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	4	U	
8260C	2-BUTANONE	78-93-3	UG_L	20	U	
8260C	2-HEXANONE	591-78-6	UG_L	20	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	20	U	
8260C	ACETONE	67-64-1	UG_L	20	U	bt
8260C	BENZENE	71-43-2	UG_L	4	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	4	U	
8260C	BROMOFORM	75-25-2	UG_L	4	U	
8260C	BROMOMETHANE	74-83-9	UG_L	8	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	4	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	4	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	4	U	
8260C	CHLOROETHANE	75-00-3	UG_L	8	U	
8260C	CHLOROFORM	67-66-3	UG_L	4	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	8	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	4	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	4	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	4	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	4	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	8	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	4	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	4	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	8	U	
8260C	METHYL ACETATE	79-20-9	UG_L	6	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	4	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	4	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	20	U	
8260C	O-XYLENE	95-47-6	UG_L	4	U	
8260C	STYRENE	100-42-5	UG_L	4	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	4	U	
8260C	TOLUENE	108-88-3	UG_L	4	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	4	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	4	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	4	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	8	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	8	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	12	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-6		
Sample ID				VPB164-GW-042816-898-900		
Sample Date				4/28/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	bt
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-7DL		
Sample ID				VPB164-GW-042816-918-920		
Sample Date				4/28/2016		
Sample Type				Groundwater		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	2.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	2.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	2.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	2.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	2.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	2.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	2.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	3.8	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	2.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	2.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	2.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	5	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	2.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	2.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	2.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	12	U	
8260C	2-HEXANONE	591-78-6	UG_L	12	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	12	U	
8260C	ACETONE	67-64-1	UG_L	12	U	bt
8260C	BENZENE	71-43-2	UG_L	2.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	2.5	U	
8260C	BROMOFORM	75-25-2	UG_L	2.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	5	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	2.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	2.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	2.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	5	U	
8260C	CHLOROFORM	67-66-3	UG_L	2.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	5	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	2.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	2.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	2.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	2.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	5	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	2.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	2.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	5	U	
8260C	METHYL ACETATE	79-20-9	UG_L	3.8	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	2.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	2.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	12	U	
8260C	O-XYLENE	95-47-6	UG_L	2.5	U	
8260C	STYRENE	100-42-5	UG_L	2.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	2.5	U	
8260C	TOLUENE	108-88-3	UG_L	2.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	2.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	2.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	2.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	5	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	5	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	7.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2369		
Lab ID				SJ2369-2		
Sample ID				VPB164-TB-040716		
Sample Date				4/7/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	UJ	mc
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	UJ	mc
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	UJ	mc
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	UJ	mc
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	UJ	mc
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	UJ	mc
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	UJ	mc
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	UJ	mc
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	UJ	mc
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	UJ	mc
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	UJ	mc
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	UJ	mc
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	UJ	mc
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	UJ	mc
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	UJ	mc
8260C	2-BUTANONE	78-93-3	UG_L	2.5	UJ	c,mc
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c,mc
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	UJ	mc
8260C	ACETONE	67-64-1	UG_L	2.7	J	c,mc
8260C	BENZENE	71-43-2	UG_L	0.5	UJ	mc
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	UJ	mc
8260C	BROMOFORM	75-25-2	UG_L	0.5	UJ	mc
8260C	BROMOMETHANE	74-83-9	UG_L	1	UJ	mc
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	UJ	mc
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	UJ	mc
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	UJ	mc
8260C	CHLOROETHANE	75-00-3	UG_L	1	UJ	mc
8260C	CHLOROFORM	67-66-3	UG_L	0.5	UJ	mc
8260C	CHLOROMETHANE	74-87-3	UG_L	1	UJ	l,c,mc
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	UJ	mc
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	UJ	mc
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	UJ	mc
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	UJ	mc
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	UJ	mc
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	UJ	mc
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	UJ	mc
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	UJ	mc
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	UJ	mc
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	UJ	mc
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	UJ	mc
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	UJ	mc
8260C	O-XYLENE	95-47-6	UG_L	0.5	UJ	mc
8260C	STYRENE	100-42-5	UG_L	0.5	UJ	mc
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	UJ	c,mc
8260C	TOLUENE	108-88-3	UG_L	0.5	UJ	mc
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	UJ	mc
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	UJ	mc
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	UJ	mc
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	UJ	mc
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	UJ	mc
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	UJ	mc

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2438		
Lab ID				SJ2438-1		
Sample ID				VPB164-TB-041116		
Sample Date				4/11/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	UJ	c
8260C	2-HEXANONE	591-78-6	UG_L	2.5	UJ	c
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	UJ	c
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	UJ	c
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	UJ	c
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	UJ	c
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	UJ	c
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				Lab ID		
Sample ID				Sample Date		
Sample Type				Field Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	4	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)



**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-1RA		
Sample ID				VPB164-TB-041216		
Sample Date				4/12/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	4.6	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582		
Lab ID				SJ2582-7RA		
Sample ID				VPB164-EB-041216		
Sample Date				4/12/2016		
Sample Type				Equipment Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.8	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2603		
Lab ID				SJ2603-2		
Sample ID				VPB164-TB-041516		
Sample Date				4/15/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-1		
Sample ID				VPB164-TB-041916		
Sample Date				4/19/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	3.5	J	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2778		
Lab ID				SJ2778-10		
Sample ID				VPB164-EB-042116		
Sample Date				4/21/2016		
Sample Type				Equipment Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	2.5	U	
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	1.1	J	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2835		
Lab ID				SJ2835-2		
Sample ID				VPB164-TB-042516		
Sample Date				4/25/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	5		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

- UG\_L = Micrograms per liter
- Qual = Final qualifiers (See Attachment A)
- RC = Reason codes (See Attachment B)

**Final Results after Data Review**  
**NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2923		
Lab ID				SJ2923-1		
Sample ID				VPB164-TB-042716		
Sample Date				4/27/2016		
Sample Type				Trip Blank		
Method	Analyte	CAS No	Units	Result	Qual	RC
8260C	1,1,1-TRICHLOROETHANE	71-55-6	UG_L	0.5	U	
8260C	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_L	0.5	U	
8260C	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_L	0.5	U	
8260C	1,1,2-TRICHLOROETHANE	79-00-5	UG_L	0.5	U	
8260C	1,1-DICHLOROETHANE	75-34-3	UG_L	0.5	U	
8260C	1,1-DICHLOROETHENE	75-35-4	UG_L	0.5	U	
8260C	1,2,4-TRICHLOROBENZENE	120-82-1	UG_L	0.5	U	
8260C	1,2-DIBROMO-3-CHLOROPROPANE	96-12-8	UG_L	0.75	U	
8260C	1,2-DIBROMOETHANE	106-93-4	UG_L	0.5	U	
8260C	1,2-DICHLOROBENZENE	95-50-1	UG_L	0.5	U	
8260C	1,2-DICHLOROETHANE	107-06-2	UG_L	0.5	U	
8260C	1,2-DICHLOROETHENE, TOTAL	540-59-0	UG_L	1	U	
8260C	1,2-DICHLOROPROPANE	78-87-5	UG_L	0.5	U	
8260C	1,3-DICHLOROBENZENE	541-73-1	UG_L	0.5	U	
8260C	1,4-DICHLOROBENZENE	106-46-7	UG_L	0.5	U	
8260C	2-BUTANONE	78-93-3	UG_L	2.5	U	
8260C	2-HEXANONE	591-78-6	UG_L	2.5	U	
8260C	4-METHYL-2-PENTANONE	108-10-1	UG_L	2.5	U	
8260C	ACETONE	67-64-1	UG_L	7.7		
8260C	BENZENE	71-43-2	UG_L	0.5	U	
8260C	BROMODICHLOROMETHANE	75-27-4	UG_L	0.5	U	
8260C	BROMOFORM	75-25-2	UG_L	0.5	U	
8260C	BROMOMETHANE	74-83-9	UG_L	1	U	
8260C	CARBON DISULFIDE	75-15-0	UG_L	0.5	U	
8260C	CARBON TETRACHLORIDE	56-23-5	UG_L	0.5	U	
8260C	CHLOROBENZENE	108-90-7	UG_L	0.5	U	
8260C	CHLOROETHANE	75-00-3	UG_L	1	U	
8260C	CHLOROFORM	67-66-3	UG_L	0.5	U	
8260C	CHLOROMETHANE	74-87-3	UG_L	1	U	
8260C	CIS-1,2-DICHLOROETHENE	156-59-2	UG_L	0.5	U	
8260C	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_L	0.5	U	
8260C	CYCLOHEXANE	110-82-7	UG_L	0.5	U	
8260C	DIBROMOCHLOROMETHANE	124-48-1	UG_L	0.5	U	
8260C	DICHLORODIFLUOROMETHANE	75-71-8	UG_L	1	U	
8260C	ETHYLBENZENE	100-41-4	UG_L	0.5	U	
8260C	ISOPROPYLBENZENE	98-82-8	UG_L	0.5	U	
8260C	M- AND P-XYLENE	108-38-3/106-42	UG_L	1	U	
8260C	METHYL ACETATE	79-20-9	UG_L	0.75	U	
8260C	METHYL CYCLOHEXANE	108-87-2	UG_L	0.5	U	
8260C	METHYL TERT-BUTYL ETHER	1634-04-4	UG_L	0.5	U	
8260C	METHYLENE CHLORIDE	75-09-2	UG_L	2.5	U	
8260C	O-XYLENE	95-47-6	UG_L	0.5	U	
8260C	STYRENE	100-42-5	UG_L	0.5	U	
8260C	TETRACHLOROETHENE	127-18-4	UG_L	0.5	U	
8260C	TOLUENE	108-88-3	UG_L	0.5	U	
8260C	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_L	0.5	U	
8260C	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_L	0.5	U	
8260C	TRICHLOROETHENE	79-01-6	UG_L	0.5	U	
8260C	TRICHLOROFLUOROMETHANE	75-69-4	UG_L	1	U	
8260C	VINYL CHLORIDE	75-01-4	UG_L	1	U	
8260C	XYLENES, TOTAL	1330-20-7	UG_L	1.5	U	

**Notes:**

UG\_L = Micrograms per liter  
Qual = Final qualifiers (See Attachment A)  
RC = Reason codes (See Attachment B)

**Final Results after Data Review  
NWIRP Bethpage OU2 Regional Groundwater Investigation**

Sample Delivery Group				SJ2582			SJ2582		
Lab ID				SJ2582-5			SJ2582-6		
Sample ID				VPB164-SOIL-041216-263-265			VPB164-SOIL-D-041216		
Sample Date				4/12/2016			4/12/2016		
Sample Type				Soil			Field Duplicate		
Method	Analyte	CAS No	Units	Result	Qual	RC	Result	Qual	RC
2540G	TOTAL SOLIDS	-29	PCT	77			80		
9060A	TOTAL ORGANIC CARBON	-28	UG_G	7000	J	fd	20000	J	fd

**Notes:**

Qual = Final interpreted qualifier  
 RC = Validator reason code (see definition below)  
 PCT = Percent  
 UG\_G = Micrograms per gram  
 J = Estimated value; one or more quality control parameters were outside control limits.

**Validator Reason Code:**

fd = Flagged estimated due to field duplicate relative percent difference.



**Final Results after Data Review  
 NWIRP Bethpage OU2 Regional Groundwater Investigation**

<b>Sample Delivery Group</b>				SJ2582			SJ2582		
<b>Lab ID</b>				SJ2582-10			SJ2582-7		
<b>Sample ID</b>				VPB164-FB-041316			VPB164-EB-041216		
<b>Sample Date</b>				4/13/2016			4/12/2016		
<b>Sample Type</b>				Field Blank			Equipment Blank		
<b>Method</b>	<b>Analyte</b>	<b>CAS No</b>	<b>Units</b>	Result	Qual	RC	Result	Qual	RC
5310B	TOTAL ORGANIC CARBON	-28	MG_L	0.43	J		0.37	J	

**Notes:**

- Qual = Final interpreted qualifier (See Attachment A)
- RC = Validator reason code
- MG\_L = Micrograms per liter
- J = Estimated value; the reported value is greater than or equal to the laboratory method detection limit but less than the quantitation limit.

**DATA VALIDATION REPORT**

Project:	Regional Groundwater Investigation — NWIRP Bethpage	
Laboratory:	Katahdin Analytical	
Sample Delivery Group:	SJ2921	
Analyses/Method:	Volatile Organic Compounds (VOCs) by U.S. EPA Method TO-15	
Validation Level:	3	
Project Number:	0888812477.SA.DV	
Prepared by:	Dana Miller/Resolution Consultants	Completed on: 06/04/2016
Reviewed by:	Tina Clemmey/Resolution Consultants	File Name: SJ2921_TO15

**SUMMARY**

This report summarizes data review findings for samples listed below, collected by Resolution Consultants from the Regional Groundwater Investigation — NWIRP Bethpage site on 27 April 2016 in accordance with the following Sampling and Analysis Plans:

- *Sampling and Analysis Plan, Bethpage, New York.* (Resolution Consultants April 2013).
- *UFP SAP Addendum, Installation of Vertical Profile Borings and Monitoring Wells, Operable Unit 2, NWIRP Bethpage, New York.* (Resolution Consultants November 2013).
- *UFP SAP Addendum, Inclusion of Additional Target Analytes for Volatile Organics Analyses, NWIRP Bethpage OU2, Bethpage, New York.* (Resolution Consultants August 2014).

Sample ID	Matrix/Sample Type	Analysis
VPB164-AIR-042716	Air	TO-15

Data validation activities were conducted using the following guidance documents: *Determination of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters and Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)* (U.S. EPA, Method TO-15), *U.S. Environmental Protection Agency (U.S. EPA) Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (NFG, June 2008), and Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 4.2 (October 2010). In the absence of method-specific information, laboratory quality control (QC) limits, project-specific requirements and/or professional judgment were used as appropriate.

**REVIEW ELEMENTS**

The data were evaluated based on the following parameters (where applicable to the method):

- ✓ Data completeness (chain-of-custody (COC)/sample integrity)
- ✓ Holding times and sample preservation
- ✓ GC/MS performance checks
- ✓ Initial calibration/continuing calibration verification
- ✗ Laboratory blanks
- NA Matrix duplicate (MD) results
- ✓ Laboratory control sample (LCS) results
- NA Field duplicates
- ✓ Internal standards
- ✓ Sample results/reporting issues

The symbol (✓) indicates that no validation qualifiers were applied based on this parameter. NA indicates that the parameter was not included as part of this data set or was not applicable to this validation and therefore not reviewed. Acceptable data parameters for which all criteria were met and no qualification was performed and non-conformance or other issues that were noted during validation, but did not result in qualification of data are not discussed further. The symbol (✗) indicates that a QC non-conformance resulted in the qualification of data. Any QC non-conformance that resulted in the qualification of data is discussed below.

### Laboratory Blanks

Laboratory blanks were analyzed with samples to assess contamination imparted by sample preparation and/or analysis. All results associated with a particular blank were evaluated to determine whether there was an inherent variability in the data, or if a problem was an isolated occurrence that did not affect the data. Samples were flagged in accordance with *Functional Guidelines* (shown below) where detections were not believed to be site-related. Laboratory blanks were free from contamination with the exception of the blank outliers that are detailed in Table 1 below, along with the qualifications performed.

Table 1 Laboratory Blank Outliers							
Batches	Analyte	Result (µg/m <sup>3</sup> )	LOQ (µg/m <sup>3</sup> )	Associated Samples	Result (µg/m <sup>3</sup> )	LOQ (µg/m <sup>3</sup> )	Qualifiers
WG183019	TOLUENE	0.045	0.38	VPB164-AIR-042716	0.90	0.38	U
WG183019	1,2,4-TRICHLOROENZENE	0.15	0.74	VPB164-AIR-042716	ND	0.74	None (a)
WG183019	ACETONE	0.074	0.59	VPB164-AIR-042716	4.3	0.59	None (b)

**Notes:**

LOQ	=	Limit of quantitation
U	=	Results were qualified as undetected due to associated laboratory blank detections.
µg/m <sup>3</sup>	=	Micrograms per cubic meter
(a)	=	Sample result were undetected.
(b)	=	Sample result were greater than four times the limit of quantitation.

**Qualifications Actions**

The data was reviewed independently from the laboratory to assess data quality and no results were qualified during this data review. Analytical completeness was calculated to be 100% and the data are usable for their intended purpose, according to U.S. EPA guidelines and Department of Defense guidelines. Attachment A provides final results after data review.

**ATTACHMENTS**

Attachment A: Final Results after Data Review

**Attachment A**  
**Final Results after Data Review**

Sample Delivery Group				SJ2921		
Lab ID				SJ2921-1		
Sample ID				VPB164-AIR-042716		
Sample Date				4/27/2016		
Sample Type				Air		
Method	Analyte	CAS No	Units	Result	Qual	RC
TO-15	1,1,1-TRICHLOROETHANE	71-55-6	UG_M3	0.27	U	
TO-15	1,1,2,2-TETRACHLOROETHANE	79-34-5	UG_M3	0.34	U	
TO-15	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	76-13-1	UG_M3	0.54	J	
TO-15	1,1,2-TRICHLOROETHANE	79-00-5	UG_M3	0.27	U	
TO-15	1,1-DICHLOROETHANE	75-34-3	UG_M3	0.2	U	
TO-15	1,1-DICHLOROETHENE	75-35-4	UG_M3	0.2	U	
TO-15	1,2,4-TRICHLOROBENZENE	120-82-1	UG_M3	0.37	U	
TO-15	1,2-DIBROMOETHANE	106-93-4	UG_M3	0.38	U	
TO-15	1,2-DICHLOROBENZENE	95-50-1	UG_M3	0.3	U	
TO-15	1,2-DICHLOROETHANE	107-06-2	UG_M3	0.065	J	
TO-15	1,2-DICHLOROPROPANE	78-87-5	UG_M3	0.23	U	
TO-15	1,3-DICHLOROBENZENE	541-73-1	UG_M3	0.3	U	
TO-15	1,4-DICHLOROBENZENE	106-46-7	UG_M3	0.3	U	
TO-15	2-BUTANONE	78-93-3	UG_M3	0.41	J	
TO-15	2-HEXANONE	591-78-6	UG_M3	0.2	U	
TO-15	4-METHYL-2-PENTANONE	108-10-1	UG_M3	0.094	J	
TO-15	ACETONE	67-64-1	UG_M3	4.3		
TO-15	BENZENE	71-43-2	UG_M3	0.73		
TO-15	BROMODICHLOROMETHANE	75-27-4	UG_M3	0.33	U	
TO-15	BROMOFORM	75-25-2	UG_M3	0.52	U	
TO-15	BROMOMETHANE	74-83-9	UG_M3	0.19	U	
TO-15	CARBON DISULFIDE	75-15-0	UG_M3	0.16	U	
TO-15	CARBON TETRACHLORIDE	56-23-5	UG_M3	0.43	J	
TO-15	CHLOROBENZENE	108-90-7	UG_M3	0.23	U	
TO-15	CHLOROETHANE	75-00-3	UG_M3	0.13	U	
TO-15	CHLOROFORM	67-66-3	UG_M3	0.083	J	
TO-15	CHLOROMETHANE	74-87-3	UG_M3	1.2		
TO-15	CIS-1,2-DICHLOROETHENE	156-59-2	UG_M3	0.2	U	
TO-15	CIS-1,3-DICHLOROPROPENE	10061-01-5	UG_M3	0.23	U	
TO-15	CYCLOHEXANE	110-82-7	UG_M3	0.13	J	
TO-15	DIBROMOCHLOROMETHANE	124-48-1	UG_M3	0.42	U	
TO-15	DICHLORODIFLUOROMETHANE	75-71-8	UG_M3	2.4		
TO-15	ETHYLBENZENE	100-41-4	UG_M3	0.11	J	
TO-15	ISOPROPYLBENZENE	98-82-8	UG_M3	0.24	U	
TO-15	M- AND P-XYLENE	108-38-3/106-42	UG_M3	0.95	J	
TO-15	METHYL TERT-BUTYL ETHER	1634-04-4	UG_M3	0.18	U	
TO-15	METHYLENE CHLORIDE	75-09-2	UG_M3	0.83	J	
TO-15	O-XYLENE	95-47-6	UG_M3	0.16	J	
TO-15	STYRENE	100-42-5	UG_M3	0.21	U	
TO-15	TETRACHLOROETHENE	127-18-4	UG_M3	0.14	J	
TO-15	TOLUENE	108-88-3	UG_M3	0.19	U	bl
TO-15	TRANS-1,2-DICHLOROETHENE	156-60-5	UG_M3	0.2	U	
TO-15	TRANS-1,3-DICHLOROPROPENE	10061-02-6	UG_M3	0.23	U	
TO-15	TRICHLOROETHENE	79-01-6	UG_M3	0.27	U	
TO-15	TRICHLOROFLUOROMETHANE	75-69-4	UG_M3	1.2		
TO-15	VINYL CHLORIDE	75-01-4	UG_M3	0.13	U	
TO-15	XYLENES, TOTAL	1330-20-7	UG_M3	2	J	

**Notes:**

UG\_M3 = Micrograms per cubic meter  
Qual = Final qualifier  
RC = Reason code (see definition below)  
U = Non-detect  
J = Estimated value

**Qualification Reason Code:**

bl = Result qualified due to laboratory blank contamination.

**Section 5**

**VPB164 Analytical Data Table**

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/7/2016	4/7/2016	4/11/2016	4/11/2016
Sample ID		VPB164-GW-040716-58-60	VPB164-GW-040716-103-105	VPB164-GW-041116-148-150	VPB164-GW-041116-203-205
Sample Interval (ft bgs)		58-60	103-105	148-150	203-205
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<b>0.39 J</b>	<b>0.62 J</b>
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<b>2.8 J</b>	<b>2.2 J</b>	<2.5 UJ	<2.5 UJ
2-HEXANONE	50	<2.5 UJ	<2.5 UJ	<2.5 UJ	<2.5 UJ
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 UJ	<2.5 UJ	<b>8.8 J</b>	<b>4.4 J</b>
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
CHLOROFORM	7	<b>1.4</b>	<b>1.4</b>	<b>1.6</b>	<b>0.33 J</b>
CHLOROMETHANE	5	<1.0 UJ	<1.0 UJ	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<b>0.74 J</b>	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 UJ	<1.0 UJ
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<b>0.54 J</b>	<b>0.90 J</b>
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 UJ	<2.5 UJ
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 UJ	<0.50 UJ	<0.50 UJ	<b>0.92 J</b>
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<b>0.66 J</b>
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U



Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/12/2016	4/12/2016	4/12/2016	4/13/2016
Sample ID		VPB164-GW-041216- 218-220	VPB164-GW-041216- 238-240	VPB164-GW-041216- 258-260	VPB164-GW-041316- 278-280
Sample Interval (ft bgs)		218-220	238-240	258-260	278-280
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<b>0.28 J</b>	<b>0.54 J</b>	<b>0.93 J</b>	<b>0.30 J</b>
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<b>0.28 J</b>	<0.50 U	<b>1.2</b>	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<b>0.44 J</b>	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<b>0.40 J</b>	<b>0.70 J</b>	<b>1.4 J</b>
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<b>0.72 J</b>	<b>0.78 J</b>	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<b>0.62 J</b>	<b>0.87 J</b>	<0.50 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<b>0.37 J</b>	<b>0.94 J</b>	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/13/2016	4/13/2016	4/14/2016	4/14/2016
Sample ID		VPB164-GW-041316- 298-300	VPB164-GW-041316- 318-320	VPB164-GW-041416- 338-340	VPB164-GW-D- 041416
Sample Interval (ft bgs)		298-300	318-320	338-340	338-340
Sample type code		N	N	N	FD
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<b>5.7</b>	<b>8.0</b>	<b>8.8</b>
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<b>0.53 J</b>	<b>1.7</b>	<b>1.1</b>	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/14/2016	4/15/2016	4/15/2016	4/15/2016
Sample ID		VPB164-GW-041416- 358-360	VPB164-GW-041516- 398-400	VPB164-GW-041516- 418-420	VPB164-GW-041516- 438-440
Sample Interval (ft bgs)		358-360	398-400	418-420	438-440
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<b>6.6</b>	<b>11</b>	<b>3.9 J</b>	<b>4.3 J</b>
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<b>1.8</b>	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/18/2016	4/18/2016	4/18/2016	4/19/2016
Sample ID		VPB164-GW-041816-458-460	VPB164-GW-041816-478-480	VPB164-GW-041816-498-500	VPB164-GW-041916-518-520
Sample Interval (ft bgs)		458-460	478-480	498-500	518-520
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<b>2.0 J</b>	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<b>13</b>	<b>4.3 J</b>	<b>5.4</b>	<2.5 U
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<b>0.32 J</b>	<0.50 U	<0.50 U	<b>0.49 J</b>
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/19/2016	4/19/2016	4/20/2016	4/20/2016
Sample ID		VPB164-GW-041916-538-540	VPB164-GW-041916-558-560	VPB164-GW-042016-578-580	VPB164-GW-042016-608-610
Sample Interval (ft bgs)		538-540	558-560	578-580	608-610
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<b>&lt;2.5 U</b>	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;3.8 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<b>&lt;2.5 U</b>	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<2.5 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<2.5 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<12 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<12 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<12 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<12 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<b>&lt;2.5 U</b>	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<2.5 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<2.5 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<2.5 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<2.5 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;2.5 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<2.5 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<5.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<3.8 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<2.5 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<2.5 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<b>&lt;12 U</b>	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<2.5 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;2.5 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<2.5 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<5.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<b>&lt;5.0 U</b>	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<b>&lt;7.5 U</b>	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/21/2016	4/21/2016	4/21/2016	4/21/2016
Sample ID		VPB164-GW-042116-618-620	VPB164-GW-042116-638-640	VPB164-GW-D-042116	VPB164-GW-042116-658-660
Sample Interval (ft bgs)		618-620	638-640	638-640	658-660
Sample type code		N	N	FD	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<0.75 U	<0.75 U	<0.75 U	<0.75 U
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/22/2016	4/22/2016	4/25/2016	4/25/2016
Sample ID		VPB164-GW-042216- 683-685	VPB164-GW-042216- 698-700	VPB164-GW-042516- 718-720	VPB164-GW-042516- 738-740
Sample Interval (ft bgs)		683-685	698-700	718-720	738-740
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;1.5 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<1.0 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<1.0 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<5.0 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<5.0 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<5.0 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<5.0 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<1.0 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<1.0 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<1.0 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<1.0 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<1.0 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;1.0 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<1.0 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<2.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<1.5 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<1.0 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<1.0 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<5.0 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<1.0 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<1.0 U	<0.50 U	<b>0.44 J</b>	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;1.0 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<1.0 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<2.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<2.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<3.0 U	<1.5 U	<1.5 U	<1.5 U

Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/26/2016	4/26/2016	4/26/2016	4/27/2016
Sample ID		VPB164-GW-042616- 763-765	VPB164-GW-042616- 778-780	VPB164-GW-042616- 798-800	VPB164-GW-042716- 818-820
Sample Interval (ft bgs)		763-765	778-780	798-800	818-820
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<0.75 U	<0.75 U	<0.75 U	<0.75 U
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<2.5 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	<2.5 U	<2.5 U
BENZENE	1	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<0.50 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CARBON DISULFIDE	60	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<0.50 U	<0.50 U	<0.50 U	<0.50 U
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<1.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<0.75 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<0.50 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<2.5 U	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<0.50 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<0.50 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<1.0 U	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<1.0 U	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<1.5 U	<1.5 U



Location	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164	VPB164	VPB164	VPB164
Sample Date		4/27/2016	4/27/2016	4/28/2016	4/28/2016
Sample ID		VPB164-GW-042716- 838-840	VPB164-GW-042716- 858-860	VPB164-GW-042816- 878-880	VPB164-GW-042816- 898-900
Sample Interval (ft bgs)		838-840	858-860	878-880	898-900
Sample type code		N	N	N	N
VOC 8260C (ug/L)					
1,1,1-TRICHLOROETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,1,2,2-TETRACHLOROETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,1,2-TRICHLOROETHANE	1	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
1,1-DICHLOROETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,1-DICHLOROETHENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,2,4-TRICHLOROBENZENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;0.75 U</b>	<b>&lt;0.75 U</b>	<b>&lt;6.0 U</b>	<b>&lt;0.75 U</b>
1,2-DIBROMOETHANE	NL	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,2-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
1,2-DICHLOROETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
1,2-DICHLOROETHENE, TOTAL	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
1,2-DICHLOROPROPANE	1	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
1,3-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
1,4-DICHLOROBENZENE	3	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
2-BUTANONE	50	<2.5 U	<2.5 U	<20 U	<2.5 U
2-HEXANONE	50	<2.5 U	<2.5 U	<20 U	<2.5 U
4-METHYL-2-PENTANONE	NL	<2.5 U	<2.5 U	<20 U	<2.5 U
ACETONE	50	<2.5 U	<2.5 U	<20 U	<2.5 U
BENZENE	1	<0.50 U	<0.50 U	<b>&lt;4.0 U</b>	<0.50 U
BROMODICHLOROMETHANE	50	<0.50 U	<0.50 U	<4.0 U	<0.50 U
BROMOFORM	50	<0.50 U	<0.50 U	<4.0 U	<0.50 U
BROMOMETHANE	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
CARBON DISULFIDE	60	<0.50 U	<0.50 U	<4.0 U	<0.50 U
CARBON TETRACHLORIDE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
CHLOROBENZENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
CHLOROETHANE	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
CHLOROFORM	7	<0.50 U	<0.50 U	<4.0 U	<0.50 U
CHLOROMETHANE	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
CIS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;4.0 U</b>	<b>&lt;0.50 U</b>
CYCLOHEXANE	NL	<0.50 U	<0.50 U	<4.0 U	<0.50 U
DIBROMOCHLOROMETHANE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
DICHLORODIFLUOROMETHANE	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
ETHYLBENZENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
ISOPROPYLBENZENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
M- AND P-XYLENE	NL	<1.0 U	<1.0 U	<8.0 U	<1.0 U
METHYL ACETATE	NL	<0.75 U	<0.75 U	<6.0 U	<0.75 U
METHYL CYCLOHEXANE	NL	<0.50 U	<0.50 U	<4.0 U	<0.50 U
METHYL TERT-BUTYL ETHER	10	<0.50 U	<0.50 U	<4.0 U	<0.50 U
METHYLENE CHLORIDE	5	<2.5 U	<2.5 U	<b>&lt;20 U</b>	<2.5 U
O-XYLENE	NL	<0.50 U	<0.50 U	<4.0 U	<0.50 U
STYRENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
TETRACHLOROETHENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
TOLUENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
TRANS-1,2-DICHLOROETHENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;0.50 U</b>	<b>&lt;0.50 U</b>	<b>&lt;4.0 U</b>	<b>&lt;0.50 U</b>
TRICHLOROETHENE	5	<0.50 U	<0.50 U	<4.0 U	<0.50 U
TRICHLOROFLUOROMETHANE	5	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
VINYL CHLORIDE	2	<1.0 U	<1.0 U	<b>&lt;8.0 U</b>	<1.0 U
XYLENES, TOTAL	5	<1.5 U	<1.5 U	<b>&lt;12 U</b>	<1.5 U

Location		VPB164
Sample Date		4/28/2016
Sample ID	NYSDEC Groundwater Guidance or Standard Value (Note 1)	VPB164-GW-042816- 918-920
Sample Interval (ft bgs)		918-920
Sample type code		N
VOC 8260C (ug/L)		
1,1,1-TRICHLOROETHANE	5	<2.5 U
1,1,2,2-TETRACHLOROETHANE	5	<2.5 U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<2.5 U
1,1,2-TRICHLOROETHANE	1	<b>&lt;2.5 U</b>
1,1-DICHLOROETHANE	5	<2.5 U
1,1-DICHLOROETHENE	5	<2.5 U
1,2,4-TRICHLOROBENZENE	5	<2.5 U
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<b>&lt;3.8 U</b>
1,2-DIBROMOETHANE	NL	<2.5 U
1,2-DICHLOROBENZENE	3	<2.5 U
1,2-DICHLOROETHANE	5	<2.5 U
1,2-DICHLOROETHENE, TOTAL	5	<5.0 U
1,2-DICHLOROPROPANE	1	<b>&lt;2.5 U</b>
1,3-DICHLOROBENZENE	3	<2.5 U
1,4-DICHLOROBENZENE	3	<2.5 U
2-BUTANONE	50	<12 U
2-HEXANONE	50	<12 U
4-METHYL-2-PENTANONE	NL	<12 U
ACETONE	50	<12 U
BENZENE	1	<b>&lt;2.5 U</b>
BROMODICHLOROMETHANE	50	<2.5 U
BROMOFORM	50	<2.5 U
BROMOMETHANE	5	<5.0 U
CARBON DISULFIDE	60	<2.5 U
CARBON TETRACHLORIDE	5	<2.5 U
CHLOROBENZENE	5	<2.5 U
CHLOROETHANE	5	<5.0 U
CHLOROFORM	7	<2.5 U
CHLOROMETHANE	5	<5.0 U
CIS-1,2-DICHLOROETHENE	5	<2.5 U
CIS-1,3-DICHLOROPROPENE	0.4	<b>&lt;2.5 U</b>
CYCLOHEXANE	NL	<2.5 U
DIBROMOCHLOROMETHANE	5	<2.5 U
DICHLORODIFLUOROMETHANE	5	<5.0 U
ETHYLBENZENE	5	<2.5 U
ISOPROPYLBENZENE	5	<2.5 U
M- AND P-XYLENE	NL	<5.0 U
METHYL ACETATE	NL	<3.8 U
METHYL CYCLOHEXANE	NL	<2.5 U
METHYL TERT-BUTYL ETHER	10	<2.5 U
METHYLENE CHLORIDE	5	<b>&lt;12 U</b>
O-XYLENE	NL	<2.5 U
STYRENE	5	<2.5 U
TETRACHLOROETHENE	5	<2.5 U
TOLUENE	5	<2.5 U
TRANS-1,2-DICHLOROETHENE	5	<2.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	<b>&lt;2.5 U</b>
TRICHLOROETHENE	5	<2.5 U
TRICHLOROFLUOROMETHANE	5	<5.0 U
VINYL CHLORIDE	2	<b>&lt;5.0 U</b>
XYLENES, TOTAL	5	<b>&lt;7.5 U</b>

**Notes:**

1 New York State Department of Environmental Conservation Division of Water Technical and Operation Guidance series  
(6 NYCRR 700-706, Part 703.5 summarized in TOGS 1.1.1)

Ambient water quality standards and groundwater effluent limitations, class GA; NL = Not Listed

**Bold =** Detected; ***Bold and Italics***=Not detected exceeds NYS Groundwater Standards or guidance value

Yellow highlighted values exceed Groundwater Standards or guidance value

Sample type codes: N - normal environmental sample, FD - field duplicate

U = Nondetected result. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

M = the matrix spike or matrix spike duplicate did not meet recovery or precision requirements.

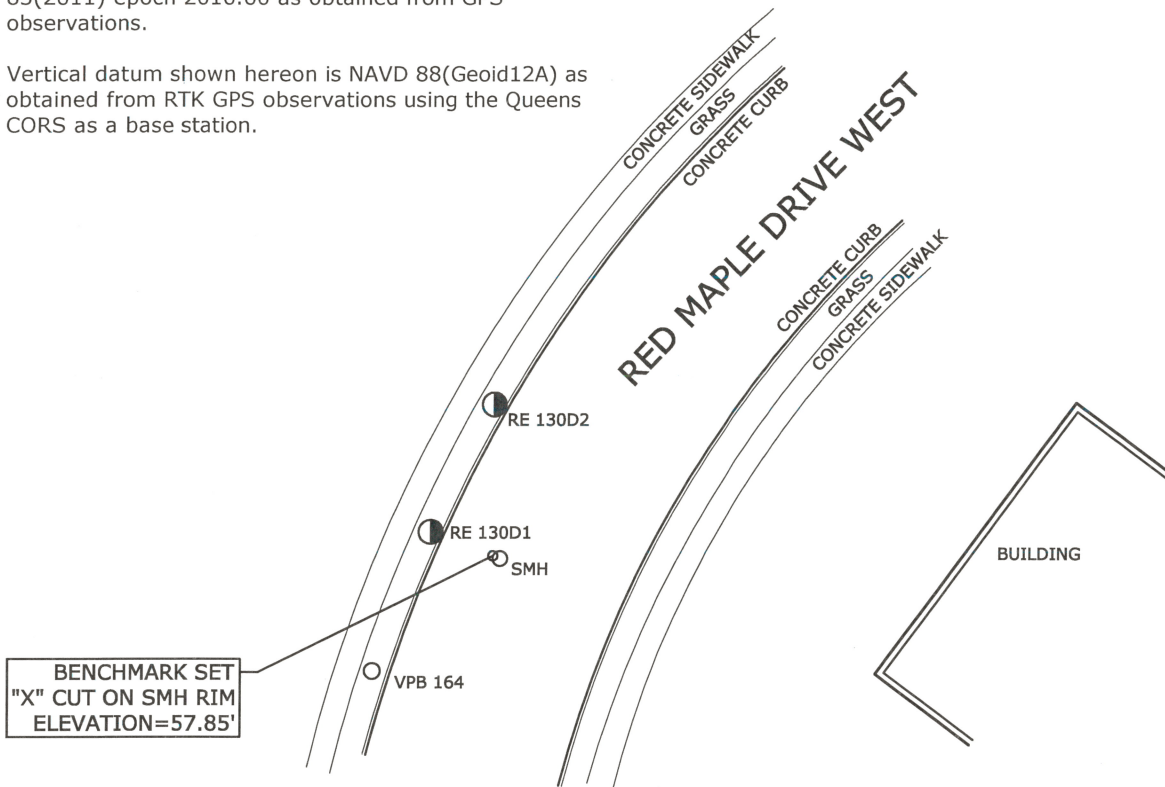
**Section 6**  
**VPB164 Survey**

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

Description	Northing	Easting	Latitude	Longitude	Ground	Top of Casing	PVC
VPB 164	197562.93	1122351.40	N40-42-28.31	W73-30-06.78	56.79	NA	NA
RE 130D1	197584.59	1122360.37	N40-42-28.52	W73-30-06.66	57.87	57.99	57.59
RE 130D2	197604.41	1122370.25	N40-42-28.72	W73-30-06.53	57.97	57.21	57.72

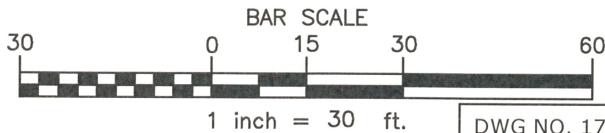
Map Notes

- Information shown hereon was compiled from an actual field survey conducted on March 20, 2017.
- North orientation is Grid North based on the New York State Plane Coordinate System, Long Island Zone, NAD 83(2011) epoch 2010.00 as obtained from GPS observations.
- Vertical datum shown hereon is NAVD 88(Geoid12A) as obtained from RTK GPS observations using the Queens CORS as a base station.



Legend

- RE 130D1 Monitor Well
- SMH Sanitary Manhole
- VPB 140 Vertical Profile Boring



DWG NO. 17-223

Date	RECORD OF WORK	Appr.	VERTICAL PROFILE BORING 164 SURVEY LOCATION 370 RED MAPLE DRIVE WEST
			<b>C.T. MALE ASSOCIATES</b> Engineering, Surveying, Architecture & Landscape Architecture, D.P.C. 50 CENTURY HILL DRIVE, LATHAM, NY 12110 518.786.7400 * FAX 518.786.7299
Drafter: MDD	Checker: MPN		
Appr. by: WJN	Proj. No. 14.4121	SCALE: 1"=30'	DATE: MARCH 20, 2017

**Appendix B**  
**Geologic Cross Sections Derived from**  
**Environmental Sequence Stratigraphy (ESS)**

## **Appendix B. Geologic Cross Sections Derived from Environmental Sequence Stratigraphy**

Resolution Consultants reviewed the geologic data and regional literature at the Naval Weapons Industrial Reserve Plant at Bethpage, New York and developed four representative base-wide cross sections to support development of a CSM. The cross sections are presented in Figure 1 - Figure 4. The cross sections provide geologic context for groundwater and analytical data and can be used as the framework upon which new and existing datasets (groundwater, analytical chemistry, geophysical data, etc.) can be analyzed to better understand groundwater flow-paths and contaminant transport and storage zones. As such, these sections are an integral component of an effective CSM.

The cross sections were developed using ESS. The ESS approach examines subsurface data in the context of the depositional environments and petroleum industry best practices of sequence stratigraphy and facies models. Shown for each boring included in the stratigraphic analysis are a vertical series of colored blocks which correspond to boring log lithology and a continuous data curve (in red or as a scan of a paper document, which corresponds to the gamma log). These colored blocks represent vertical grain size distribution and are the basis for the correlations between the data points.

The color coded blocks correspond to the graphic grainsize scale as shown in the cross-sections' keys. The width of the block increases with relative grainsize. Block color indicates the textural classification of the sediment (e.g., yellow for sand, green for silt, blue for clay) as written in the field notes of the core logging geologist (see the cross section keys for further definition).

Logs of natural gamma emissions are a common proxy for grainsize. They typically are used as a correlation aide because repetitive spatially extensive trends in grainsize are easily identified visually when curves are examined along a given section. In non-granitic aquifer material, the chemistry of minerals found in clays result in higher concentrations of gamma emitting anions as opposed to the quartz, heavy minerals, and lithic fragments that generally predominate the coarser size fractions. Thus, peaks in the gamma logs can be indicative of clay layers and in general as gamma count per second increases, the grainsize decreases. Gamma logs should always be "calibrated" by comparing side by side with a lithologic log at representative locations. Good agreement between gamma logs and lithology logs were noted in the data points used for the ESS sections at Bethpage.

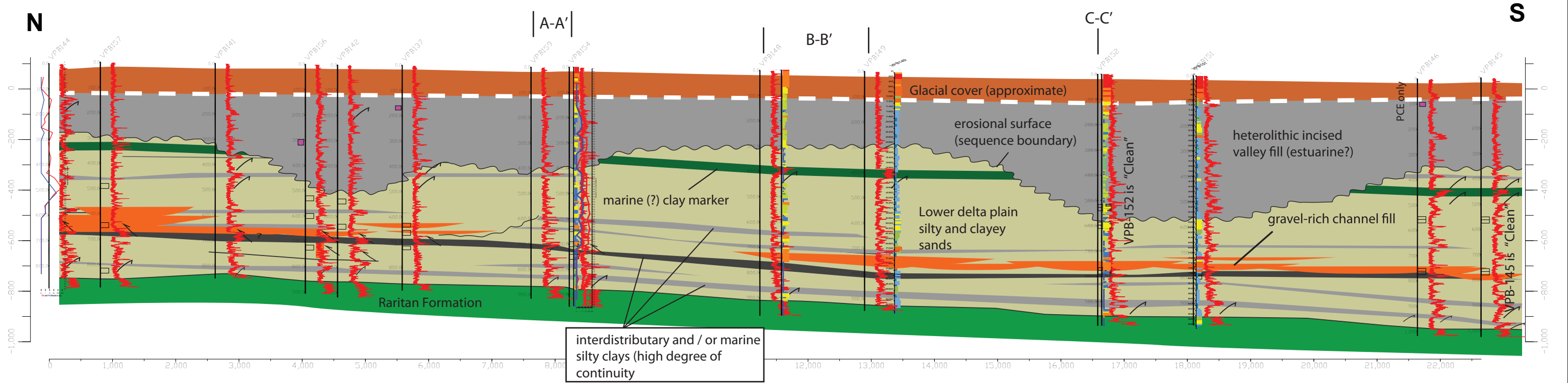
The previously established general hydrostratigraphy at Bethpage consists of the basal Raritan confining unit, the Magothy aquifer, and the shallow glacial aquifer. The stratigraphy shown in the sections presented in this technical memo is consistent with this general model but additionally shows the Magothy to consist of basal zone gravel-rich channel fills (orange in sections); extensive, planar marine clays (thin units shown in grey and dark green); and silty sands of inter-distributary and delta front origins (shown in tan). Additionally, an erosional incision into the lower delta plain sediments is observed throughout the site (portrayed in sections as a wavy solid black line). Above this, the Magothy sediments are more likely estuarine "incised valley fill" as indicated by the more heterogeneous gamma ray character. In some locations, such as VPB139 on section A-A', there appears to be clear lithologic control on contaminant distribution within the estuarine facies where the higher TCE and PCE concentrations occur in the coarser lithologic zones.

The depositional axis of the incised valley fill likely trends north-south/southeast. The incision is clearly indicated on all sections via the correlation of a prominent clay layer shown in sections in dark green. Where this clay is missing in the gamma logs, it is likely that it was eroded during a lowstand of sea level. Additionally, while relatively planar in their geometry, the major units dip gently south-south east. This is an important geologic characteristic to consider when comparing analytical results because hydrologic zones separated by thin confining layers within the Magothy may be accessed by screens of similar depth.

One of the most important benefits of the ESS approach is to develop and refine the CSM. ESS facilitates an understanding of the geology governing groundwater occurrence and movement, and provides an element for refining the approaches for assessment and remediation. The ESS results from this effort suggest that a modern analog (a modern geological setting that allows an understanding of the ancient environment) for the Magothy depositional environments is the Mackenzie River Delta, shown in Figure 5. Basal gravel zones are represented by the braided river deposits of the Toklat River, Alaska, in Figure 6.



# Environmental Sequence Stratigraphy Cross Section



## GRAIN SIZE LOG INDEX\*

\* not all grainsize categories shown in the comprehensive key are present at the site. Site sediments are predominately fine (clays, sandy clays, silts, and fine to medium sand)

Clay	Silty Sand (Medium Sand with 10-20% Fines)
Clay with 10% Sand	Clayey Sand (Medium Sand with 10-20% Fines)
Clay with 20% Sand	Fine Sand with Fine Gravel
Clay with 30% Sand	Fine Sand with Medium Gravel
Clay with 40% Sand	Fine Sand with Coarse Gravel
Clay with Fine Gravel	Medium Sand
Clay with Medium Gravel	Silty Sand (Coarse Sand with 50% Fines)
Clay with Coarse Gravel	Clayey Sand (Coarse Sand with 50% Fines)
Silt	Silty Sand (Coarse Sand with 40% Fines)
Silt with 10% Sand	Clayey Sand (Coarse Sand with 40% Fines)
Silt with 20% Sand	Silty Sand (Coarse Sand with 30% Fines)
Sandy Silt	Clayey Sand (Coarse Sand with 30% Fines)
Silty Sand	Silty Sand (Coarse Sand with 10-20% Fines)
Silty Sand	Clayey Sand (Coarse Sand with 10-20% Fines)
Silty Sand (Fine Sand with 40% Fines)	Medium Sand with Fine Gravel
Clayey Sand (Fine Sand with 40% Fines)	Medium Sand with Medium Gravel
Silty Sand (Fine Sand with 30% Fines)	Medium Sand with Coarse Gravel
Clayey Sand (Fine Sand with 30% Fines)	Coarse Sand
Silty Sand (Fine Sand with 10-20% Fines)	Coarse Sand with Fine Gravel
Clayey Sand (Fine Sand with 10-20% Fines)	Coarse Sand with Medium Gravel
Gravelly Silt (Silt with Fine Gravel)	Coarse Sand with Coarse Gravel
Gravelly Silt (Silt with Medium Gravel)	Clayey/Silty Gravel (Fine gravel with clay/silt)
Gravelly Silt (Silt with Coarse Gravel)	Clayey/Silty Gravel (Medium gravel with clay/silt)
Fine Sand	Clayey/Silty Gravel (Coarse gravel with clay/silt)
Silty Sand (Medium Sand with 50% Fines)	Sandy Gravel (Fine Gravel with Sand)
Clayey Sand (Medium Sand with 50% Fines)	Sandy Gravel (Medium Gravel with Sand)
Silty Sand (Medium Sand with 40% Fines)	Sandy Gravel (Coarse Gravel with Sand)
Clayey Sand (Medium Sand with 40% Fines)	Fine Gravel
Silty Sand (Medium Sand with 30% Fines)	Medium Gravel
Clayey Sand (Medium Sand with 30% Fines)	Coarse Gravel

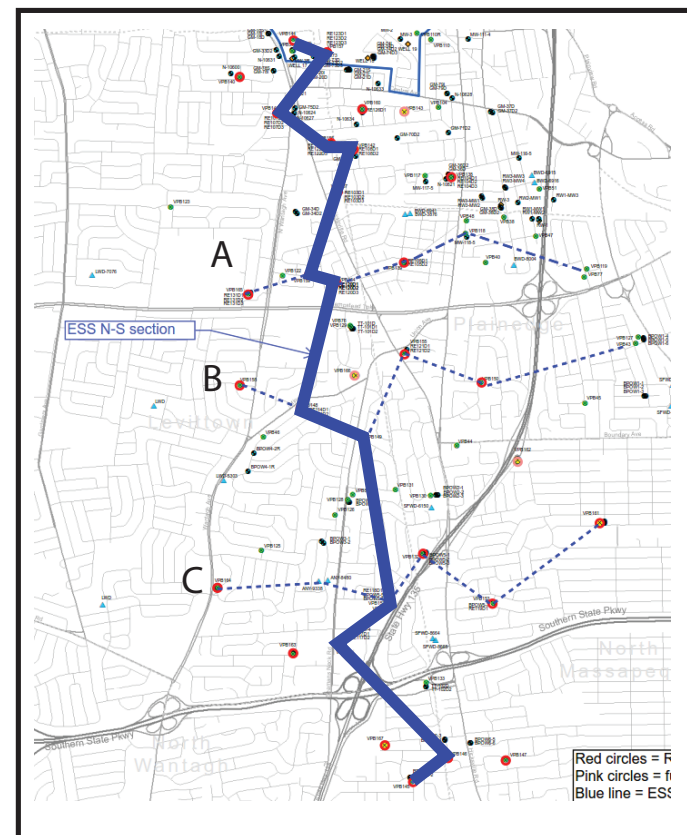
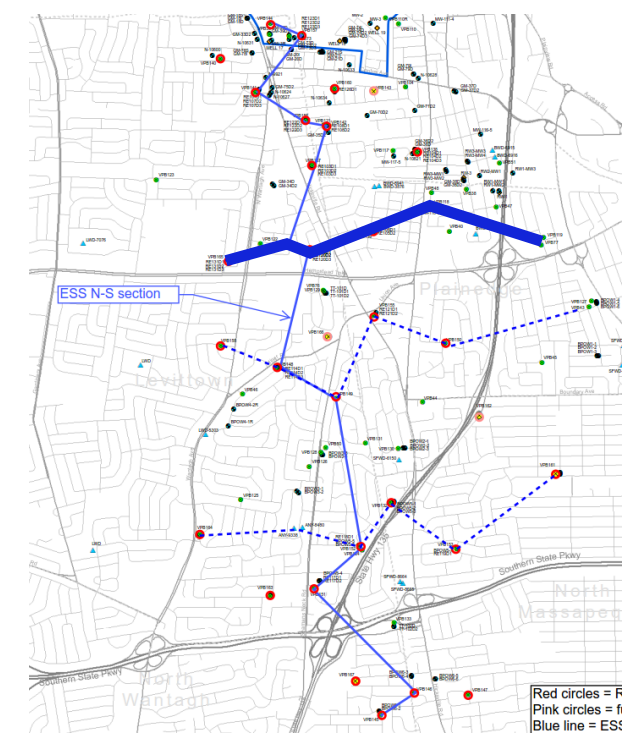
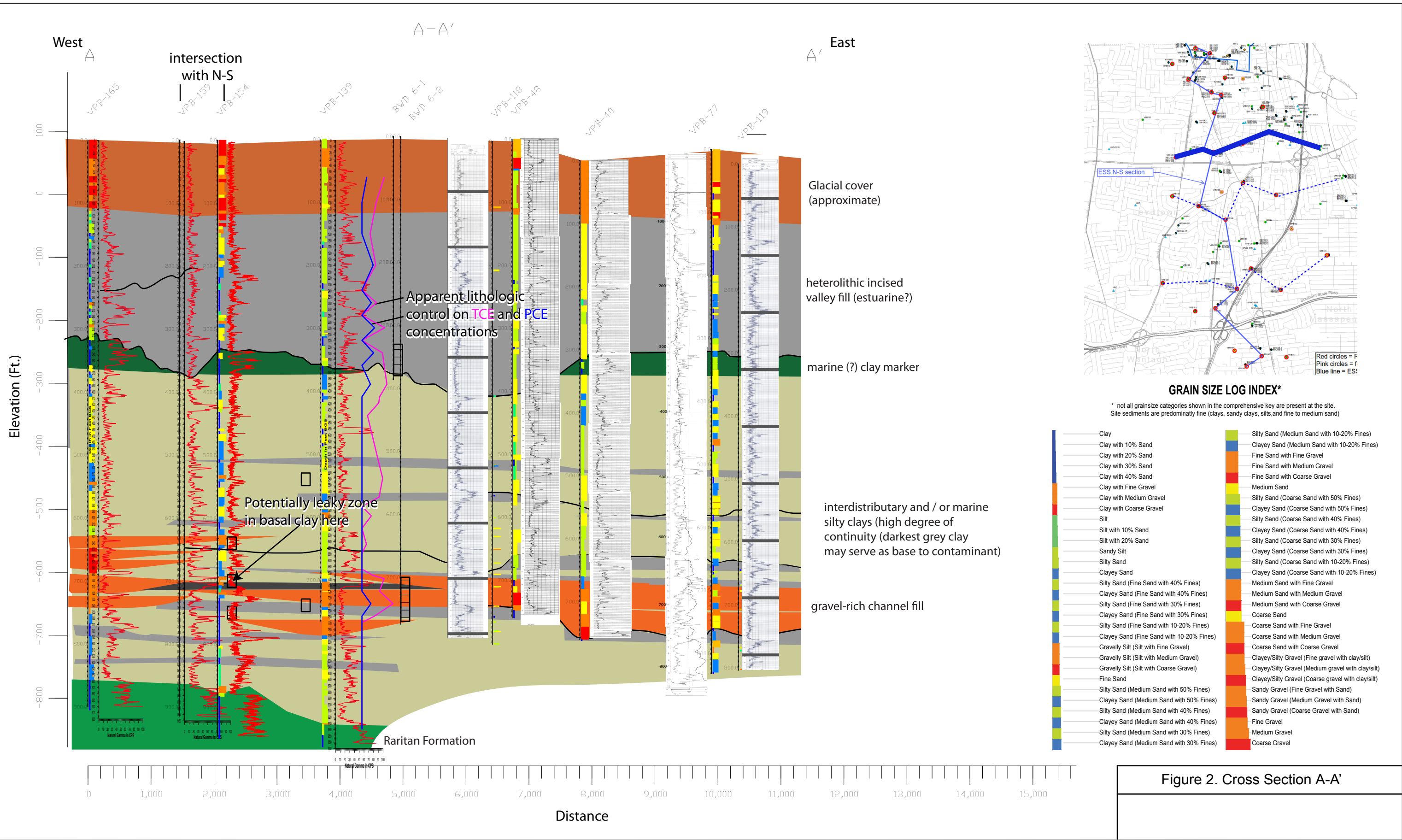
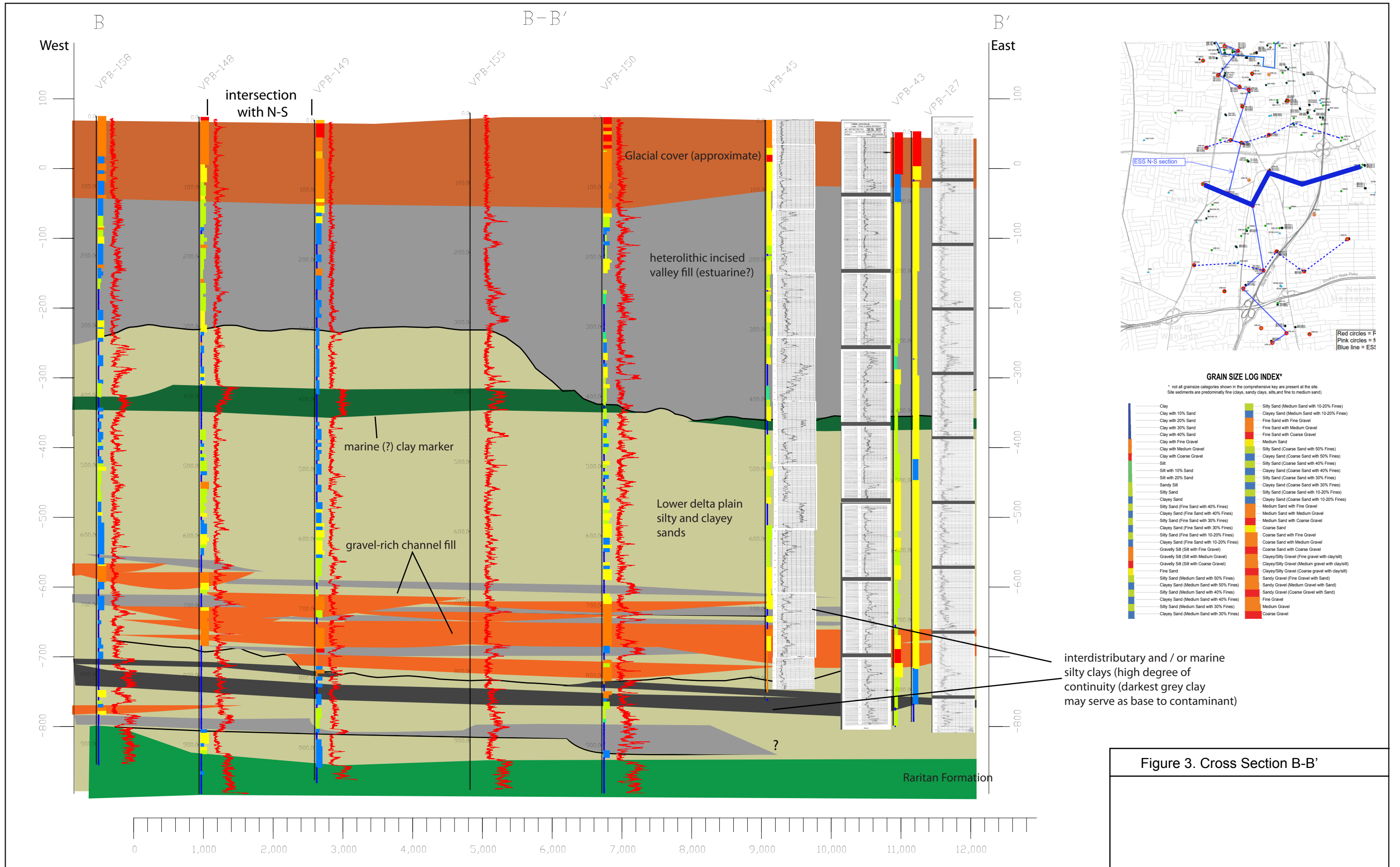
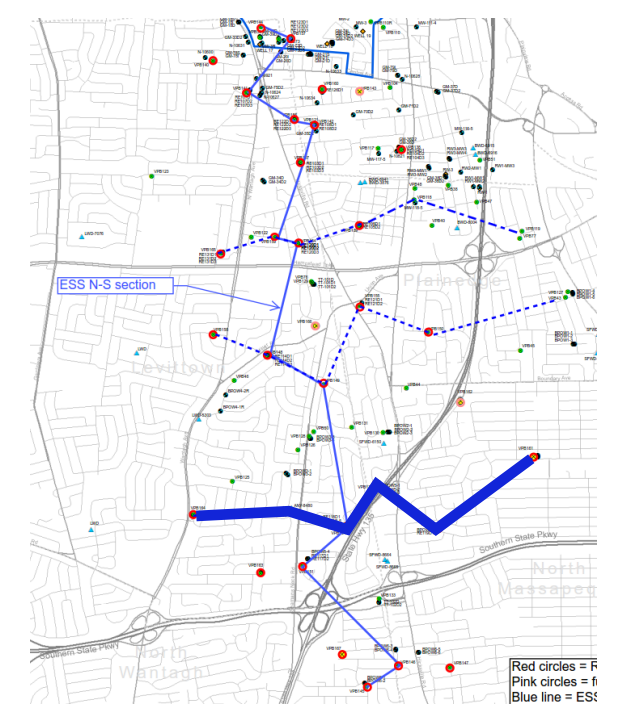
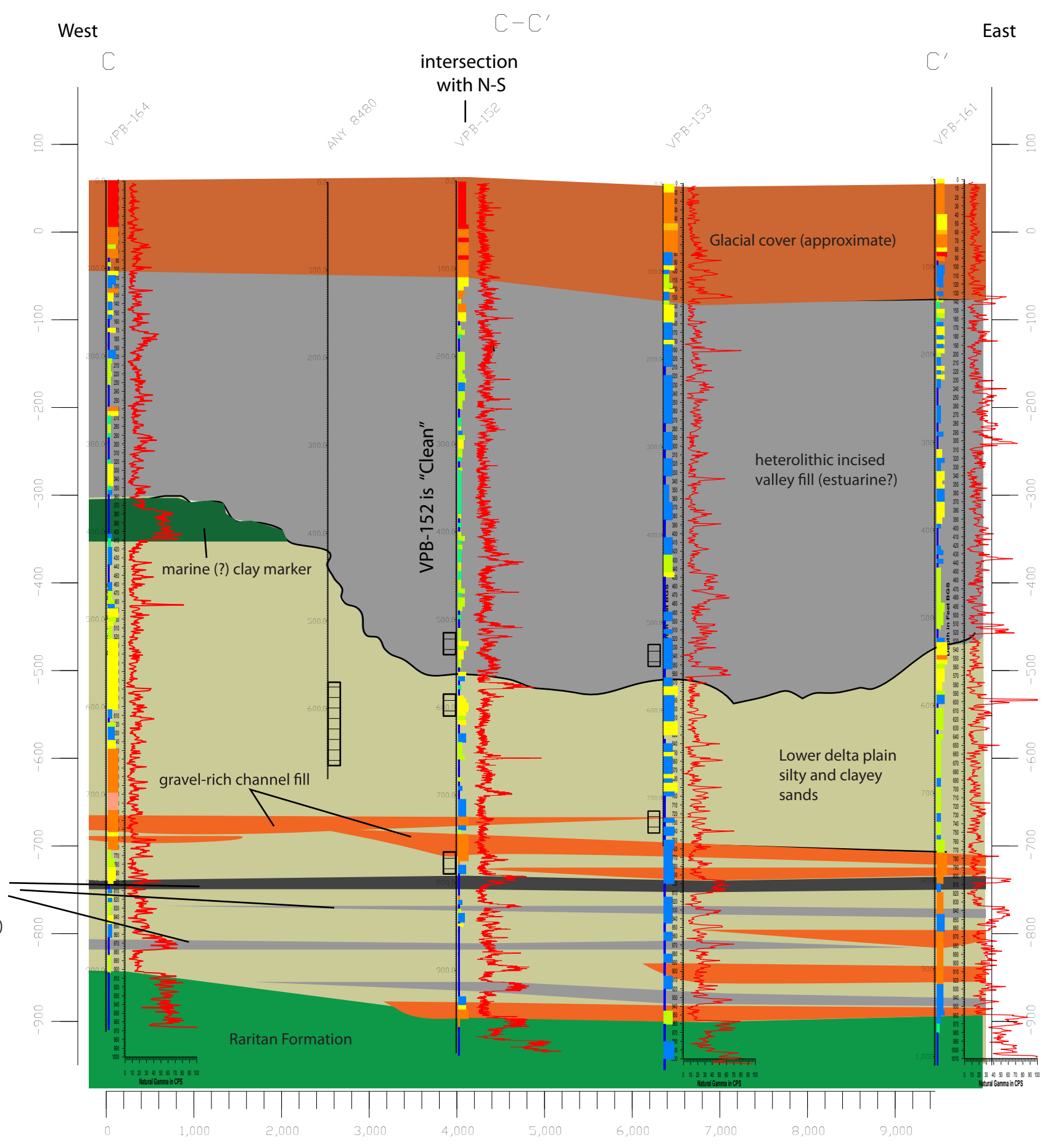


Figure 1. Cross Section N-S



**Figure 2. Cross Section A-A'**





**GRAIN SIZE LOG INDEX\***

\* not all grainsize categories shown in the comprehensive key are present at the site. Site sediments are predominately fine (clays, sandy clays, silts, and fine to medium sand)

- |   |  |
|---|--|
| Clay                                      | Silty Sand (Medium Sand with 10-20% Fines)         |
| Clay with 10% Sand                        | Clayey Sand (Medium Sand with 10-20% Fines)        |
| Clay with 20% Sand                        | Fine Sand with Fine Gravel                         |
| Clay with 30% Sand                        | Fine Sand with Medium Gravel                       |
| Clay with 40% Sand                        | Fine Sand with Coarse Gravel                       |
| Clay with Fine Gravel                     | Medium Sand  |
| Clay with Medium Gravel                   | Silty Sand (Coarse Sand with 50% Fines)            |
| Clay with Coarse Gravel                   | Clayey Sand (Coarse Sand with 50% Fines)           |
| Silt                                      | Silty Sand (Coarse Sand with 40% Fines)            |
| Silt with 10% Sand                        | Clayey Sand (Coarse Sand with 40% Fines)           |
| Silt with 20% Sand                        | Silty Sand (Coarse Sand with 30% Fines)            |
| Sandy Silt                                | Clayey Sand (Coarse Sand with 30% Fines)           |
| Silty Sand                                | Silty Sand (Coarse Sand with 10-20% Fines)         |
| Clayey Sand                               | Clayey Sand (Coarse Sand with 10-20% Fines)        |
| Silty Sand (Fine Sand with 40% Fines)     | Medium Sand with Fine Gravel                       |
| Clayey Sand (Fine Sand with 40% Fines)    | Medium Sand with Medium Gravel                     |
| Silty Sand (Fine Sand with 30% Fines)     | Medium Sand with Coarse Gravel                     |
| Clayey Sand (Fine Sand with 30% Fines)    | Coarse Sand  |
| Silty Sand (Fine Sand with 10-20% Fines)  | Coarse Sand with Fine Gravel                       |
| Clayey Sand (Fine Sand with 10-20% Fines) | Coarse Sand with Medium Gravel                     |
| Gravelly Silt (Silt with Fine Gravel)     | Coarse Sand with Coarse Gravel                     |
| Gravelly Silt (Silt with Medium Gravel)   | Clayey/Silty Gravel (Fine gravel with clay/silt)   |
| Gravelly Silt (Silt with Coarse Gravel)   | Clayey/Silty Gravel (Medium gravel with clay/silt) |
| Fine Sand                                 | Clayey/Silty Gravel (Coarse gravel with clay/silt) |
| Silty Sand (Medium Sand with 50% Fines)   | Sandy Gravel (Fine Gravel with Sand)               |
| Clayey Sand (Medium Sand with 50% Fines)  | Sandy Gravel (Medium Gravel with Sand)             |
| Silty Sand (Medium Sand with 40% Fines)   | Sandy Gravel (Coarse Gravel with Sand)             |
| Clayey Sand (Medium Sand with 40% Fines)  | Fine Gravel  |
| Silty Sand (Medium Sand with 30% Fines)   | Medium Gravel                                      |
| Clayey Sand (Medium Sand with 30% Fines)  | Coarse Gravel                                      |

interdistributary and / or marine silty clays (high degree of continuity (darkest grey clay may serve as base to contaminant))

**Figure 4. Cross Section C-C'**



**Figure 5. Mackenzie River Delta Depositional Environment**

Source: Thermal Emission and Reflection Radiometer image from NASA's TERRA satellite, August 4, 2005, Mackenzie River, Canada. Image from GSFC/METI/ERSDAC/JAROS and the US/Japan ASTER Science Team. <http://earthobservatory.nasa.gov/IOTD/view.php?id=8320>





**Figure 6. Braided River Depositional Environment**

Source: East Fork Toklat River, Alaska Range, Denali National Park <https://pubs.usgs.gov/of/2004/1216/b/b.html>

