

**INTERIM
DATA SUMMARY REPORT
GROUNDWATER**

**PCB INVESTIGATION AT SITE 1 -
FORMER DRUM MARSHALLING AREA**

Naval Weapons Industrial Reserve Plant
Bethpage, New York



**Naval Facilities Engineering Command
Mid-Atlantic**

CONTRACT NUMBER N62470-08-D-1001
Contract Task Order WE44

September 2012



TETRA TECH

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FORMER DRUM MARSHALLING AREA**

**NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
BETHPAGE, NEW YORK**

**Submitted to:
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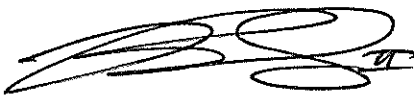
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**N62470-08-D-1001
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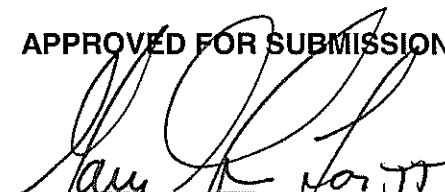
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ACRONYMS

AOC	Area of Concern
AST	Aboveground Storage Tank
bgs	below ground surface
CLEAN	Comprehensive Long-Term Environmental Action Navy
CTO	Contract Task Order
ER	Environmental Restoration
FS	Feasibility Study
ft/day	feet per day
GOCO	Government-Owned Contractor-Operated
gpm	gallons per minute
HNUS	Halliburton NUS
HSA	Hollow Stem Auger
IDW	Investigation-Derived Waste
MCL	Maximum Contaminant Level
mg/L	milligrams per liter
MS/MSD	matrix spike/matrix spike duplicate
NAVFAC	Naval Facilities Engineering Command Mid-Atlantic
NGC	Northrop Grumman Corporation
NTU	Nephelometric Turbidity Unit
NWIRP	Naval Weapons Industrial Reserve Plant
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
ORP	Oxygen Reduction Potential
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene
PVC	Polyvinyl chloride
QA	Quality Assurance
RCRA	Resource Conservation and Recovery Act
SAP	Sampling and Analysis Plan
TOC	Total Organic Carbon
TCE	Trichloroethene
UFP	Uniform Federal Policy
VOC	Volatile organic compound
µg/L	microgram per liter

1.0 INTRODUCTION

This Data Summary Report was prepared by Tetra Tech, Inc. for the Naval Facilities Engineering Command (NAVFAC) - Mid-Atlantic under the U.S. Navy's Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract number N62470-08-D-1001, Contract Task Order (CTO) WE44. The Data Summary Report presents the field activities at Site 1 – Former Drum Marshalling Area conducted from April 2011 through January 2012 at the Naval Weapons Industrial Reserve Plant (NWIRP) located in Bethpage, New York (Figures 1-1 and 1-2). The field activities consisted of the following: surface water sampling, soil borings, down hole geophysical logging, monitoring well installation and development, and groundwater sampling. Procedures, methods, and rationale were presented in the Uniform Federal Policy (UFP) Sampling and Analysis Plan (SAP) (Tetra Tech, 2010a) and the subsequent SAP Addendum (Tetra Tech, 2011). Groundwater investigation activities were conducted in accordance with the Navy Environmental Restoration (ER) Program and New York State Department of Environmental Conservation (NYSDEC) Resource Conservation and Recovery Act (RCRA) permit number NYD003995198.

1.1 SCOPE AND OBJECTIVES

This document summarizes the groundwater investigation activities conducted at the NWIRP Bethpage Site 1 – Former Drum Marshalling Area between April 2011 and January 2012. The primary objectives of the investigation were to further define the extent of polychlorinated biphenyls (PCBs) and hexavalent chromium detected in groundwater and investigate potential upgradient source areas (former sludge drying beds and NWIRP recharge basins).

Before this investigation, the existing groundwater monitoring well network at Site 1 consisted of twenty monitoring wells extending from 20 feet north to 250 feet south of the Site 1 boundaries. Groundwater flow is generally to the south across the Site. Sampling of these monitoring wells in November 2010 and March 2011 indicated concentrations of PCBs near or above New York State Department of Health (NYSDOH) maximum contaminant levels (MCLs) and hexavalent chromium detections were reported in some monitoring wells. Additional shallow, intermediate, and deep monitoring wells were installed from October through December 2011 upgradient and downgradient of Site 1 to better define the extent of PCB impacted groundwater. Total chromium and hexavalent chromium sampling was also added to the analytical suite for all monitoring wells after some detections were observed in select monitoring wells during the March 2011 groundwater sampling event.

A description of the field activities is presented in Section 3.0 of this report. The field work conducted from April 2011 to January 2012 is summarized as follows:

- Collected surface water samples from two former NWIRP recharge basins
- Advanced five deep soil borings with split spoons collected at select intervals
- Gamma logging from the deep borings for lithology
- Installed and developed fifteen new monitoring wells
- Sampled thirty-four monitoring wells for VOCs, in January 2012
- Surveyed the fifteen newly installed monitoring wells

1.2 REPORT ORGANIZATION

This Data Summary Report provides general implementation information and the approach used in conducting the groundwater investigation activities from April 2011 to January 2012 at Site 1. The report consists of five sections. Section 1.0 provides an introduction. Section 2.0 provides the facility background and environmental setting. Section 3.0 provides a summary of the field activities. Section 4.0 presents the findings and analytical results, and Section 5.0 presents the conclusion and recommendations.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Navy's Bethpage facility is located in east-central Nassau County, Long Island, New York, approximately 30 miles east of New York City (Figure 1-1). Established in 1943, the property known as NWIRP Bethpage was originally situated on 109 acres entirely within the Northrop Grumman Aerospace complex. NWIRP Bethpage was a Government-Owned Contractor Operated (GOCO) facility that was operated by the Northrop Grumman Corporation (NGC) until September 1998. Since 1998, the Navy transferred 100 acres to Nassau County. The remaining 9-acre parcel is being retained by the Navy for environmental investigations and remediation. Other than environmental investigation and cleanup work, there are no operations conducted on the Navy's property that generate hazardous waste.

Site 1 - Former Drum Marshalling Area is located in the eastern portion of the Navy's 9-acre parcel. Site 1 is mostly an open area, which in the past included above ground storage tanks (Areas of Concern [AOC] 23), a sanitary settling tank, and sludge drying beds (AOC 35). All these structures were located in the northern portion of the site, as well as a few scattered metal storage buildings. In general this area is relatively flat except for a 4-foot vegetated windrow located along the eastern end of the site, and a mounded area which partially buries the abandoned sanitary settling tank. The site is enclosed by a site perimeter fence along the north, west and south, with an eastern facility perimeter fence bounding the site from a residential neighborhood to the east. Figure 2-1 provides a site layout and aerial view of Site 1.

Site 1 originally consisted of two former drum marshalling pads located in the center of the site that were used to store drums containing waste materials from operations at Plant No. 3 and potentially other wastes from operations at the facility. Transformers and a PCB-filled autoclave were also stored at the site. Underlying most of Site 1 is approximately 120 abandoned cesspools that were designed to discharge sanitary waste waters from Plant No. 3. These cesspools were approximately 10 feet in diameter and 16 feet deep. Based on field observations, the cesspools are currently filled with soil. It is possible that non-sanitary wastes may have been discharged into this system. The drum marshalling areas and extent of the leach field were the original extent of Site 1.

In addition to the original extent of Site 1, due to proximity, similar contamination, and potential need for remedial actions, AOC 23, AOC 35, and dry-wells 20-08 and 34-07 were subsequently included as a part of Site 1.

2.2 ENVIRONMENTAL SETTING

2.2.1 Topography and Drainage

NWIRP Bethpage is located in an area underlain by permeable glacial deposits and characterized by limited surface water drainage features. Normal precipitation at the facility is expected to infiltrate rapidly into the soil. NWIRP recharge basins, which receive storm water runoff, are located in the northeastern portion of the facility north of Site 1. NWIRP Bethpage occupies a relatively flat, intermorainal area, and has very little topographic relief.

2.2.2 Geology and Soils

NWIRP Bethpage is underlain by approximately 1,100 feet of unconsolidated sediments that overlie crystalline bedrock (Isbister, 1966). The unconsolidated sediments consist of four distinct geologic units: (in descending order) Upper Glacial Formation, Magothy Formation, Raritan Clay, and Lloyd Sand Formation. The 30- to 45-foot-thick Upper Glacial Formation consists chiefly of coarse sands and gravels. The Upper Magothy Formation consists primarily of coarse sands to a depth of approximately 100 feet, below which finer sands and silts predominate along with some clay layers. These clay layers are common but laterally discontinuous; no individual clay horizon of regional extent has been observed in the Upper Magothy Formation. The 100- to 150-foot-thick Raritan Clay underlies the Magothy Formation at a depth of approximately 700 to 800 feet below ground surface (bgs). The underlying Lloyd Sand Formation is approximately 300 feet thick.

2.2.3 Hydrogeology

Most of Long Island is bisected by an east-west-trending regional groundwater divide. NWIRP Bethpage occupies an area of recharge, lying to the south of the divide. Groundwater is in contact with the Upper Glacial and Upper Magothy Formations beneath the facility, and may be considered a common unconfined aquifer. The glacial deposits are characterized by a high primary porosity (exceeding 30 percent) and high permeability. The high permeability of the glacial deposits allows for the rapid recharge of precipitation to the underlying Magothy (Isbister, 1966; McClymonds and Franke, 1972). The number and thickness of clay lenses increase with depth in the Magothy Formation; however, the horizontally discontinuous nature of these units prevents any one of them from functioning as a competent aquitard or confining unit.

Groundwater beneath the Site flows in a general southerly direction toward the Atlantic Ocean. Across the facility, the horizontal hydraulic gradient and groundwater velocity in the unconfined common aquifer

averages 5.3 feet per mile and 0.3 foot per day (ft/day), respectively [Halliburton NUS (HNUS), 1993]. Subtle vertical hydraulic gradients occur in a downward direction. Groundwater in the deeper portion of the Magothy is the primary source of potable water in Nassau County. Groundwater is encountered at a depth of approximately 50 feet bgs at the facility. Historically, because of pumping and recharge at the facility, groundwater has been measured from depths ranging from 40 to 60 feet bgs.

Prior to 1998, the groundwater flow dynamics beneath the NWIRP and Grumman were complex. A total of 16 deep production wells (7 on the NWIRP and 9 on Grumman property) existed which were set in the Magothy and each yielded approximately 1,200 gallons per minute (gpm). All of the production wells on the Navy's property have been abandoned. The extracted water was mostly used for non-contact single pass cooling and then discharged into recharge basins located on Navy and Northrop Grumman property. Based on extraction and recharge rates and well locations, groundwater on the Navy property flowed predominately west and southwest. In addition, the production wells extracted groundwater from depths of approximately 500 feet bgs and the water was recharged in the basins near grade. The extraction from the production wells and near surface recharge resulted in vertical gradients at the Site. Grumman continues to operate production wells (as well as a groundwater containment system) south of NWIRP Bethpage. The production wells and groundwater containment system operates with a combined flow rate of approximately 3,800 gpm.

The Magothy aquifer is highly conductive. For example, in the 1995 Feasibility Study (FS) investigation's pumping test no. 2, the pumping of production well PW-11 located on the Navy's property at nearly 1,000 gpm for 72 hours produced little or no measurable drawdown in the nearby observation wells or other production wells.

3.0 FIELD INVESTIGATION

3.1 FIELD AND SAMPLING ACTIVITIES

This additional PCB field investigation was conducted to address the following objectives (Interim Data Summary Report and SAP Addendum, Tetra Tech, 2011):

- Further delineate the extent of PCB and hexavalent chromium contamination in groundwater
- Investigate potential upgradient source areas (former sludge drying beds and NWIRP recharge basins)

The field sampling activities included the sampling of surface water, advancement of soil borings, permanent monitoring well installation, monitoring well development, sampling of new and existing monitoring wells, and surveying. These activities were conducted to meet the project objectives presented above and determine a path forward for further investigation and support future remedial evaluations.

The following subsections summarize the field investigation activities and identify the sampling locations and type of samples that were collected during the investigation.

3.1.1 Surface Water Sampling

On October 19, 2011 two surface water samples were collected from the outfalls into the southwestern (BPS1-SW3001) and northeastern (BPS1-SW3002) former NWIRP recharge basins. Approximately 1.2 inches of precipitation was recorded the three days prior to sampling. The outfall into the southwestern basin mainly receives storm water runoff from Plant #3 and the northeast basin receives storm water runoff from Aerospace Boulevard and northern portions of the former NWIRP property. The northeast basin also receives discharge water from the Northrup Grumman IRM system which is located just east of this basin. The surface water samples were analyzed for volatile organic compounds (VOCs), PCBs, total chromium, and hexavalent chromium. Figure 3-1 depicts the location of the two surface water samples. The samples were collected at the concrete outfalls and filled directly with storm water runoff.

3.1.2 Soil Borings

In October and November 2011, five deep soil borings were advanced using mud rotary and hollow stem auger (HSA) drilling methods at each monitoring well cluster location. The soil boring locations (BPS1-TT-MW305, -MW306, -MW307, - MW307, -MW308, and -MW309) are presented on Figure 3-1 and the

boring logs and gamma logs are presented in Appendix A. At each location an 8-inch surface casing was installed to approximately 25 feet bgs. Soil cuttings generated during drilling were screened with a photoionization detector and lithologically logged. Split spoon samples were collected at select intervals to confirm lithology. Gamma logging was conducted at each soil boring and was interpreted to confirm the presence of fine grained lithology (i.e., clay) down to 300 feet bgs. BPS1-TT-MW307 was the only location which did not exhibit a substantial gamma ray spike around 300 feet bgs which is indicative of a silt or clay unit and the boring was advanced to a total depth of 435 feet bgs. Only a varying predominate sandy lithology was encountered at depth. The soil boring at BPS1-TT-MW307 was thus discontinued.

All soil cuttings were containerized and treated as Investigation Derived Waste (IDW). After waste characterization was complete, the soils were transported and disposed of off-site at an approved disposal facility by the IDW subcontractor.

3.1.3 Monitoring Well Installation

Five monitoring well clusters, consisting of three monitoring wells, were installed via mud rotary and/or HSA drilling methods from October through December 2011. Each monitoring well cluster consisted of a shallow water table well, an intermediate well, and a deep well. Shallow monitoring well screen intervals ranged from 40 to 65 feet bgs in depth, intermediate wells from 150 to 200 feet, and deeper wells from 250 to 300 feet. Two monitoring well clusters (BPS1-TT-MW308 and -MW309) were installed in the hydraulically upgradient (north) of Site 1 and three monitoring well clusters (BPS1-TT-MW305, -MW306, and -MW307) were installed hydraulically downgradient (south) of Site 1. The upgradient clusters were installed to investigate the potential upgradient sources of the former sludge beds and NWIRP recharge basins to the north. The former sludge drying beds are hydraulically upgradient of Site 1 and are located approximately 550 feet north of the BPS1-TT-MW301 cluster. The three downgradient well clusters were installed approximately 400 feet south of three existing downgradient monitoring well clusters (BPS1-TT-MW302, -MW303, and -MW304). The monitoring well locations are presented on Figure 3-1 and the construction details are provided in Table 3-1.

At each monitoring well cluster, the deep monitoring wells were installed in the deep soil borings using mud rotary drilling methods, while the shallow and intermediate monitoring wells were installed via HSA drilling. Before the deep monitoring wells were installed the drilling mud within the soil boring was thinned and if the soil boring was deeper than needed, it was backfilled with #1 silica sand to the appropriate depth for well installation. For the shallow and intermediate monitoring wells the augers were advanced to the target depths (determined from gamma logs and split spoon sampling) and filled with potable water to limit flowing sands. Each monitoring well was constructed with a 2-inch diameter, 10-foot, 0.010-inch slot, schedule 40 polyvinyl chloride (PVC) screen and riser pipe. A #1 silica sand pack was installed from

1 foot below to a minimum of 3 feet above the screened interval, except for the deep wells where the sand pack extended approximately 10 feet above the screen. The deep wells were constructed without a bentonite seal and with a thicker sand pack due to the difficulty of setting a bentonite seal through the drilling mud. For the shallow and intermediate monitoring wells a 3- to 5-foot bentonite seal consisting of coated bentonite pellets was placed above the sand pack and allowed to hydrate prior to grouting. High solids bentonite-cement grout slurry was then pumped via tremie pipe up to the ground surface. Protective steel stick-up casings were installed at the BPS1-TT-MW306, -MW308, and -MW309 monitoring well clusters. Flush mount well covers were installed at the BPS1-TT-MW305 and -MW307 monitoring well clusters, while the wells at BPS1-TT-MW301 were converted from stick-ups to flush mounts due to potential high traffic in this area from commercial redevelopment activities.

Well development was conducted using both airlifting and submersible pump development methods. The well development of the intermediate and deep monitoring wells consisted of airlifting followed by surging/purging with a submersible pump (Grundfos). Development of the shallow monitoring wells was only possible by surging/purging with a submersible pump (Grundfos). During well development, groundwater parameters were measured every 5 minutes and included: pH, specific conductivity, temperature, turbidity, and oxygen reduction potential (ORP). Development was concluded after parameter stabilization was achieved and approximately 400 gallons of water was purged from each shallow monitoring well and a minimum of 550 gallons was purged at each intermediate/deep monitoring well. Monitoring well construction and development records are presented in Appendix A. Development water was containerized and treated as IDW.

3.1.4 Groundwater Flow and Sampling

Groundwater sampling was conducted from January 10 through January 23, 2012 using low flow sampling techniques. A Grundfos Rediflo pump was used for groundwater purging and sample collection activities. Groundwater parameters and turbidity measurements were collected at each monitoring well during purging and allowed to stabilize before sampling. Each monitoring well was field tested for hexavalent chromium and groundwater samples were also collected for VOC, PCB, and metal analysis by a fixed based lab. At well locations where test kit results indicated a positive detection of hexavalent chromium greater than 0.01 milligrams per liter (mg/L) a sample was collected for analysis by fixed based lab to confirm the result. Groundwater sample log sheets and low flow purge data sheets are presented in Appendix A.

The hexavalent chromium field test kit followed HACH Method 8023 (1,5-Diphenylcarbohydrazide Method) using a HACH DR/890 colorimeter and associated ChromaVer 3 Chromium Reagent Powder Pillows. At the start of each day a 0.5 mg/L Hexavalent Chromium standard solution was prepared to

check and confirm calibration of the colorimeter. During testing two vials were filled with groundwater, one of which was the blank and the other was the sample in which the ChromaVer 3 Chromium Reagent Powder Pillow was added. If the groundwater was turbid (>50 Nephelometric Turbidity Units [NTUs]) an Acid Reagent Powder Pillow was added to the blank sample. After 5 minutes the blank sample vial was then run to zero out the colorimeter which was followed by the sample vial with the reagent, to provide the final result.

Quality Assurance (QA) samples were taken during groundwater sampling and included rinsate blanks, source water blanks, field duplicates, matrix spike matrix duplicated (MSMSD), and trip blanks. QA sample log sheets are presented in Appendix A.

Purge water generated during monitoring well sampling was containerized and treated as IDW.

On January 24, 2012 a round of synoptic groundwater measurements were collected. These measurements were used to generate groundwater elevation contour maps and provide information on groundwater flow patterns and gradients (see Appendix A for Groundwater Level Measurement Sheets). Figure 3-2, 3-3, and 3-4 present the January 2012 potentiometric surface for shallow, intermediate, and deep monitoring wells, respectively. Based on the groundwater levels, a slight downward vertical gradient is observed between shallow and deeper monitoring wells and a south to southeast groundwater flow is apparent at Site 1. Table 3-2 provides a summary of the groundwater elevations at Site 1.

3.1.5 Surveying

The newly installed monitoring wells and area surveys around the monitoring wells were surveyed by BANC3, a New York State licensed surveyor, on January 26, 2012. Each location was surveyed for horizontal position and vertical components including both ground surface and top of casing elevations for each monitoring well location. Horizontal measurements were accurate to 0.1 foot while vertical elevation measurements were accurate to 0.01 foot at each location. The area surveys consisted of four horizontal survey points bounding the monitoring wells not on Navy property for future easement agreements. A summary of the survey results can be found in Appendix B.

4.0 FINDINGS AND ANALYTICAL RESULTS

4.1 INTRODUCTION

Results from this additional PCB field investigation consisted of geologic observations, hydrogeological findings, and field test kit and fixed-based laboratory analytical results of groundwater and surface water samples. The following subsections describe the findings and analytical results.

4.2 GEOLOGY AND HYDROGEOLOGY

The geology encountered in the study area was variable both horizontally and vertically. Medium to coarse sand and gravel was consistently observed in the upper 30 feet of each boring. Below 30 feet, fine grained silty sands predominate along with some clay and potential lignite layers that range in thickness from a few inches to approximately 10 feet thick.

A cross section location map (Figure 4-1) presents the cross sections generated to present the lithological interpretations across the study area. Figure 4-2 presents Cross Section A-A' which runs north to south through the study area. Figures 4-3 and 4-4 present Cross Sections B-B' and C-C' which run east to west, approximately 400 feet apart, with each cross section interpreted through three downgradient soil borings/monitoring well locations.

Lithologic data collected from soil cores, split spoon samples, and gamma logs were used to interpret the subsurface lithology presented on the cross sections. By comparing the lithologic data and gamma ray signatures from adjacent soil borings, most of the silt and clay layers above 150 feet bgs appear to be discontinuous. Below 150 feet bgs the gamma ray signatures of the clay and silt layers have enough similarities to connect some of these fine-grained units. Notable semi-confining units, approximately 10 feet thick, appear to be present from BPS1-TT-MW309D to BPS1-TT-SB3002 between 250 and 300 feet bgs and from BPS1-SB3007 and BPS1-TT-MW306D between 200 and 250 feet bgs, see Figures 4-2 and 4-3. Figure 4-4 presents the geology encountered at the southernmost extent of the study area. Between 150 and 200 feet bgs there appears to be a series of semi-confining units, below which the clay layers become more discontinuous and much thinner. These semi-confining units appear to impede PCB-contaminated groundwater from migrating deeper, but do not completely prevent PCB-contaminated groundwater from reaching depths deeper than 250 feet bgs.

The soil boring at BPS1-TT-MW307D was advanced to a depth of 435 feet bgs. Below 300 feet bgs no fine-grained layers were encountered and the predominant sandy formation coarsened with depth.

Based on the lithology observed in the new soil borings and the borings advanced in 2009 and 2010, monitoring wells were installed at depths just above potential semi-confining units observed in the soil borings and/or at depths where contamination was observed in upgradient wells. Table 3-1 presents the construction details for each of the monitoring wells installed during this investigation.

4.3 SURFACE WATER SAMPLE RESULTS

Two surface water samples were collected from the outfalls into the southwestern (BPS1-SW3001) and northeastern (BPS1-SW3002) former NWIRP recharge basins (Figure 3-1). Approximately 1.2 inches of precipitation was recorded the three days prior to sampling. The samples were collected at the concrete outfalls and filled directly with storm water runoff and sampled for VOCs, PCBs, total chromium, and hexavalent chromium. Table 4-1 provides a summary of the analytical results. Aroclor-1248 was detected at BPS1-SW3001 at 0.35 micrograms per liter ($\mu\text{g/L}$) and PCBs were not detected at BPS1-SW3002. Total chromium (2.4 and 0.84 $\mu\text{g/L}$) and hexavalent chromium (0.4 and 0.4 $\mu\text{g/L}$) were detected at BPS1-SW3001 and BPS1-SW3002 respectively. VOCs were not detected in either of the two surface water samples.

4.4 GROUNDWATER SAMPLING RESULTS

4.4.1 Groundwater Test Kit Results

Hexavalent chromium field test kits were used at each monitoring well during the January 2012 sampling event. Table 4-2 provides a summary of the field test kit results at each well location along with the corresponding fixed-based laboratory results for chromium and hexavalent chromium. The hexavalent chromium test kit results ranged from non-detect to 180 $\mu\text{g/L}$. Concentrations (>10 $\mu\text{g/L}$) of hexavalent chromium were observed at BPS1-TT-MW301D (90 $\mu\text{g/L}$), -MW304I1 (40 $\mu\text{g/L}$), -MW304I2 (180 $\mu\text{g/L}$), and -MW309I (60 $\mu\text{g/L}$). Further discussion on these results is provided in the following section.

4.4.2 Monitoring Well Sampling Results

During the January 2012 sampling event thirty-four monitoring wells were sampled and analyzed for VOCs, PCBs, and total chromium and iron by TriMatrix Laboratories of Grand Rapids, Michigan. Select monitoring wells were also sampled for TOC, hexavalent chromium, filtered chromium and iron, and total calcium and sodium. Table 4-3 provides a summary of the analytical results with the associated Federal and NYSDOH MCLs for each detected compound for comparison. Figures 4-5, 4-6, and 4-7 provide a summary of the distribution and concentrations of the detected compounds in the shallow, intermediate, and deep monitoring wells respectively.

Aroclor-1242 or Aroclor-1248 was detected by the laboratory in 30 of the 34 groundwater samples. The laboratory indicated that a conclusive PCB Aroclor identification was not possible due to the signature interference and/or weathering of the PCBs. Validation of the laboratory results indicated that both Aroclor-1242 and Aroclor-1248 have several common peaks and similar patterns in their standard chromatograms. Because of these similarities, it was difficult to determine the predominant Aroclor or how to precisely quantify each Aroclor separately. Therefore the laboratory reported a single Aroclor mixture, either Aroclor-1242 or Aroclor-1248. A “weathering effect” or degradation of compounds within the specific mixtures is also a likely factor in precisely identifying the Aroclor mixture present. Despite these complexities, validation concluded that an Aroclor mixture is present in the affected samples. Due to the uncertainties speciating Aroclor-1242 and Aroclor-1248, detected Aroclors will be treated as a single Aroclor and referenced in the following text as PCBs.

PCBs were detected in 30 of the 34 groundwater samples collected, with 22 of the samples indicating concentrations of PCBs exceeding the Federal and NYSDOH MCL of 0.5 µg/L during the January 2012 sampling event. Of the nine monitoring wells located upgradient of Site 1, PCBs were not detected in only one monitoring well (BPS1-TT-MW309D). Concentrations in five of these upgradient wells were above the MCL including the highest observed PCB detection of 10 µg/L at BPS1-TT-MW301S. All three monitoring wells on the downgradient edge of Site 1 (BPS1-FW01, FW02, FW03, and HN29I) showed detections of PCBs, but only one monitoring well (BPS1-FW-MW03 at 1.9 µg/L) exceeded the MCL. Of the 22 downgradient monitoring wells, 19 wells had detections of PCBs with 17 of these monitoring wells having concentrations exceeding the MCL. Four out of the twelve shallow monitoring wells across the study area indicated concentrations of PCBs exceeding the MCL. Sampling results from the intermediate and deep monitoring wells showed MCL exceedences of PCBs in 19 out of 22 samples.

A total of fourteen VOCs were detected in groundwater, with four VOCs (1,1,1-trichloroethane, cis-1,2-dichloroethene, tetrachloroethene [PCE], and trichloroethene [TCE]) exceeding the corresponding NYSDOH and/or Federal MCLs. 1,1,1-trichloroethane exceeded NYSDOH MCL of 5 µg/L at BPS1-FW-MW01 with a concentration of 8.3 µg/L. Cis-1,2-dichloroethene exceeded the NYSDOH MCL of 5 µg/L at two monitoring wells with concentrations ranging from 6 µg/L at BPS1-TT-MW304I1 to 70 µg/L at BPS1-FW-MW01. Six of the monitoring well samples indicated concentrations of PCE above the MCLs with detections ranging from 5.5 to 200 µg/L. The highest detection of PCE was observed at BPS1-FW-MW01. TCE exceeded the MCL of 5 µg/L at 4 monitoring wells (BPS1-FW-MW01, BPS1-TT-MW303I1, -MW305I, and -MW305D) with concentrations ranging from 18 to 3900 µg/L. The highest concentrations of TCE were observed at BPS1-TT-MW305I (3900 µg/L) and BPS1-TT-MW305D (140 µg/L).

Twelve groundwater samples were collected and analyzed for hexavalent chromium by the fixed-based laboratory. Hexavalent chromium was detected in six of the twelve groundwater samples and used to correlate and confirm detections observed in the field test kit sampling. Laboratory detections of hexavalent chromium were observed in monitoring wells BPS1-TT-MW301I (5.3 µg/L), BPS1-TT-MW301D (86 µg/L), BPS1-TT-MW304I1 (35.5 µg/L), BPS1-TT-MW304I2 (181 µg/L), BPS1-TT-MW309S (8.9 µg/L), and BPS1-TT-MW309I (47.7 µg/L). Total chromium was detected in all 34 groundwater samples and only exceeded the MCL of 100 µg/L at BPS1-TT-MW304I2 (200 µg/L).

Table 4-2 provides a comparison of the hexavalent chromium field test kits and laboratory results for hexavalent chromium and total chromium samples. Hexavalent chromium field test kit results showed good correlation with the fixed-based laboratory results for concentrations that exceeded the detection limit of 10 µg/L for the field test kits. This correlation is seen in the following detections of hexavalent chromium from the monitoring well samples as presented in Table 4-2: 90 µg/L and 86 µg/L at BPS1-TT-MW301D, 40 µg/L and 35.5 µg/L at BPS1-TT-MW304I1, 180 µg/L and 181 µg/L at BPS1-TT-MW304I2, and 60 µg/L and 47.7 µg/L at BPS1-TT-MW309I. When also comparing the total chromium results above 25 µg/L to the hexavalent chromium results (field test kit and fixed-based laboratory) at each well location, the concentrations also correlated well, indicating that if elevated concentrations of total chromium is detected in groundwater, most of it is likely in the hexavalent form.

Appendix C and D provide the chain of custody forms, analytical results, and validation summaries of the groundwater samples sent for fixed based lab analysis.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions based on the PCB investigation activities are as follows:

1. Under current conditions, potentiometric surface mapping of groundwater indicates groundwater flow is south to southeast across Site 1.
2. Detections of PCBs and Hexavalent Chromium in groundwater at upgradient monitoring well clusters BPS1-TT-MW301, -MW308, and -MW309 indicate a potential upgradient source that has contributed to PCB-contaminated groundwater north of Site 1.
3. TCE was detected at 3,900 µg/L in monitoring well BPS1-TT-MW305I (southwestern most well cluster along the southern fenceline).
4. Hexavalent chromium was detected at concentrations of 86 µg/L at BPS1-TT-MW301D, 35.5 µg/L at MW304I1, 181 µg/L at MW304I2, and 47.7 µg/L at MW309I.
5. A good correlation was observed between the hexavalent chromium field test kit results and the fixed-based laboratory for results above the test kit detection limit of 10 µg/L.

Recommendations are as follows:

1. Investigate potential upgradient sources of PCB- and hexavalent chromium- contaminated groundwater north of the NWIRP recharge basins and former sludge drying beds.
2. Further monitor the occurrence of PCBs, chromium and hexavalent chromium in groundwater to support future remedy evaluations to determine whether Site 1 is a statistically significant source of PCBs detected in groundwater.

Based on the results of the groundwater monitoring through January 2012, additional monitoring wells will be installed upgradient of Site 1 to evaluate potential upgradient sources of contamination. A SAP Addendum is presented in Appendix E and details the additional upgradient well installation and groundwater sampling to be conducted in 2012.

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TABLES

**TABLE 3-1
MONITORING WELL CONSTRUCTION DETAILS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHAPGE, NEW YORK**

Monitoring Well ID	Installation Date	Total Depth (feet bgs)	Screened Interval Depth (feet bgs)	Reference Elevation TOC (feet MSL)	Ground Surface Elevation (feet MSL)
BPS1-FW-MW01	NA	63.5 ¹	48.5-63.5 ¹	126.10	123.57
BPS1-FW-MW02	NA	64 ¹	49-64 ¹	126.85	124.23
BPS1-FW-MW03	NA	67 ¹	52-67 ¹	125.46	122.86
BPS1-HN-MW29I	11/26/1991	130.5	120-130	115.37	116.06
BPS1-TT-MW301S	11/10/2010	61	51-61	126	126.38
BPS1-TT-MW301I	11/12/2010	140	130-140	125.56	126.04
BPS1-TT-MW301D	10/29/2010	220	210-220	125.93	126.32
BPS1-TT-MW302S	10/30/2010	51	41-51	116.01	116.32
BPS1-TT-MW30211	10/26/2010	120	110-120	115.91	116.32
BPS1-TT-MW30212	10/18/2010	150	140-150	115.91	116.33
BPS1-TT-MW302D	10/16/2010	213	203-213	116.08	116.35
BPS1-TT-MW303S	8/18/2010	56	46-56	115.65	116.06
BPS1-TT-MW30311	10/19/2010	105	95-105	115.83	116.08
BPS1-TT-MW30312	10/17/2010	156	146-156	115.89	116.15
BPS1-TT-MW303D	10/14/2010	218	208-218	115.94	116.2
BPS1-TT-MW304S	11/13/2010	53	43-53	119.13	116.49
BPS1-TT-MW30411	11/11/2010	112	102-112	119.27	116.77
BPS1-TT-MW30412	11/1/2010	150	140-150	119.18	116.7
BPS1-TT-MW304D	10/27/2010	190	180-190	119.19	116.67
BPS1-TT-MW305S	11/22/2011	50	40-50	116.04	116.52
BPS1-TT-MW305I	11/29/2011	200	190-200	116.16	116.38
BPS1-TT-MW305D	11/21/2011	296	286-296	115.94	116.25
BPS1-TT-MW306S	12/8/2011	60	50-60	117.82	115.33
BPS1-TT-MW306I	12/6/2011	199	189-199	117.76	115.45
BPS1-TT-MW306D	11/28/2011	294	284-294	118.06	115.59
BPS1-TT-MW307S	11/11/2011	50.5	40.5-50.5	114.39	114.59
BPS1-TT-MW307I	11/18/2011	198	188-198	114.16	114.67
BPS1-TT-MW307D	11/11/2011	286	276-286	114.42	114.85
BPS1-TT-MW308S	11/14/2011	64	54-64	131.05	128.586
BPS1-TT-MW308I	11/15/2011	166	156-166	130.73	128.58
BPS1-TT-MW308D	10/31/2011	260	250-260	130.98	128.78
BPS1-TT-MW309S	11/9/2011	63	53-63	131.77	129.41
BPS1-TT-MW309I	11/8/2011	170	160-170	131.83	129.44
BPS1-TT-MW309D	10/20/2011	262	252-262	131.52	129.42
BPS1-RA-MW02	NA	68	58-68	122.15	122.51
BPS1-RA-MW04	NA	68	58-68	NA	NA

NOTES:

- bgs = below ground surface
- MW = Monitoring Well
- MSL = Mean Sea Level
- NA = Not Available
- TOC = Top of Casing
- ¹ = Top of Casing Measurement

**TABLE 3-2
GROUNDWATER ELEVATION SUMMARY
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK**

Well	Total Depth (feet bgs)	Screened Interval Depth (feet bgs)	Ground Surface Elevation (feet MSL)	TOC Elevation (feet MSL)	Jan. 2012 Water Level (feet BTOC)	Jan. 2012 Water Level (feet MSL)
BPS1-FW-MW01	63.5	48.5-63.5 ¹	123.57	126.1	52.25	73.85
BPS1-FW-MW02	64	49-64 ¹	124.23	126.85	52.89	73.96
BPS1-FW-MW03	67	52-67 ¹	122.86	125.46	51.39	74.07
BPS1-HN-MW29I	130.5	120-130 ²	116.06	115.37	42.15	73.22
BPS1-HN-MW29D	220	210-220	116.07	115.5	42.33	73.17
BPS1-TT-MW301S	62	51-61	126.38	126.00	51.24	74.76
BPS1-TT-MW301I	140	130-140	126.04	125.56	51.08	74.48
BPS1-TT-MW301D	220	210-220	126.32	125.93	51.81	74.12
BPS1-TT-MW302S	51	41-51	116.32	116.01	42.38	73.63
BPS1-TT-MW302I1	120	110-120	116.32	115.91	42.43	73.48
BPS1-TT-MW302I2	150	140-150	116.33	115.91	42.69	73.22
BPS1-TT-MW302D	213	203-213	116.35	116.08	42.96	73.12
BPS1-TT-MW303S	58	46-56	116.06	115.65	42.13	73.52
BPS1-TT-MW303I1	105	95-105	116.08	115.83	42.5	73.33
BPS1-TT-MW303I2	156	146-156	116.15	115.89	42.84	73.05
BPS1-TT-MW303D	218	208-218	116.2	115.94	43.01	72.93
BPS1-TT-MW304S	53	43-53	116.49	119.13	46.03	73.10
BPS1-TT-MW304I1	112	102-112	116.77	119.27	46.26	73.01
BPS1-TT-MW304I2	150	140-150	116.7	119.18	46.45	72.73
BPS1-TT-MW304D	190	180-190	116.67	119.19	46.6	72.59
BPS1-TT-MW305S	50	40-50	116.52	116.04	42.96	73.08
BPS1-TT-MW305I	200	190-200	116.38	116.16	43.55	72.61
BPS1-TT-MW305D	296	286-296	116.25	115.94	43.78	72.16
BPS1-TT-MW306S	60	50-60	115.33	117.82	44.9	72.92
BPS1-TT-MW306I	199	189-199	115.45	117.76	45.34	72.42
BPS1-TT-MW306D	294	284-294	115.59	118.06	46.04	72.02
BPS1-TT-MW307S	50.5	40.5-50.5	114.59	114.39	41.81	72.58
BPS1-TT-MW307I	198	188-198	114.67	114.16	42.21	71.95
BPS1-TT-MW307D	286	276-286	114.85	114.42	42.66	71.76
BPS1-TT-MW308S	64	54-64	128.586	131.05	55.54	75.51
BPS1-TT-MW308I	166	156-166	128.58	130.73	55.7	75.03
BPS1-TT-MW308D	260	250-260	128.78	130.98	56.27	74.71
BPS1-TT-MW309S	63	53-63	129.41	131.77	55.82	75.95
BPS1-TT-MW309I	170	160-170	129.44	131.83	56.45	75.38
BPS1-TT-MW309D	262	252-262	129.42	131.52	56.39	75.13
BPS1-RA-MW02	68	58-68	--	122.47	47.79	74.68
BPS1-RA-MW04	68	58-68	--	--	--	--

Notes:

bgs : below ground surface
 BTOC : Below top of casing
 MSL : Mean sea level
Italics : Estimated value

TABLE 4-1
ANALYTICAL DETECTIONS - SURFACE WATER
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 1 OF 1

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-SW3001	BPS1-SW3002
Sample Date				10/19/2011	10/19/2011
Polychlorinated Biphenyls (µg/L)					
AROCLOR-1248	12672-29-6	0.5	0.5	0.35 J	0.1 U
Metals (µg/L)					
CHROMIUM	7440-47-3	100	100	2.4	0.84 J
IRON	7439-89-6	NE	300	240	150
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³	0.4 J	0.4 J

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

NE = Not Established

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1 Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from the NYSDOH website at

<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

TABLE 4-2
FIELD TEST KIT AND LABORATORY CHROMIUM RESULTS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHAPGE, NEW YORK

Monitoring Well ID	Screened Interval Depth (feet bgs)	Hexavalent Chromium Test Kit ¹ Result (µg/L)	Hexavalent Chromium Lab Analytical Result (µg/L)	Total Chromium Lab Analytical Result (µg/L)
BPS1-FW-MW01	48.5-63.5	10	-	4.4
BPS1-FW-MW02	49-64	10	-	8.5
BPS1-FW-MW03	52-67	10	-	4.6
BPS1-HN-MW29I	120-130	10	-	5.5
BPS1-TT-MW301S	51-61	10	-	2.5
BPS1-TT-MW301I	130-140	10	5.3	7.0
BPS1-TT-MW301D	210-220	90	86	92
BPS1-TT-MW302S	41-51	10	-	0.63 J
BPS1-TT-MW302I1	110-120	ND	-	1.4
BPS1-TT-MW302I2	140-150	10	-	5.1
BPS1-TT-MW302D	203-213	ND	-	2.3
BPS1-TT-MW303S	46-56	10	-	2.7
BPS1-TT-MW303I1	95-105	ND ²	-	5.8
BPS1-TT-MW303I2	146-156	10	ND	2.4
BPS1-TT-MW303D	208-218	ND	-	5.3
BPS1-TT-MW304S	43-53	ND	-	1.4
BPS1-TT-MW304I1	102-112	40	35.5	38
BPS1-TT-MW304I2	140-150	180	181	200
BPS1-TT-MW304D	180-190	ND	-	4.5
BPS1-TT-MW305S	40-50	ND	-	2.4
BPS1-TT-MW305I	190-200	ND	-	3.5
BPS1-TT-MW305D	286-296	ND	ND	22
BPS1-TT-MW306S	50-60	10	ND	1.3
BPS1-TT-MW306I	189-199	ND	ND	2.3
BPS1-TT-MW306D	284-294	10	-	1.2
BPS1-TT-MW307S	40.5-50.5	ND	-	4.0
BPS1-TT-MW307I	188-198	ND	ND	12
BPS1-TT-MW307D	276-286	ND	-	13
BPS1-TT-MW308S	54-64	ND	-	10
BPS1-TT-MW308I	156-166	ND	-	10
BPS1-TT-MW308D	250-260	10	-	17
BPS1-TT-MW309S	53-63	10 ³	8.9 J	18
BPS1-TT-MW309I	160-170	60 ^{2,3}	47.7	49
BPS1-TT-MW309D	252-262	ND ³	ND	7.5

Notes:

µg/L = micrograms per liter

bgs = below ground surface

ND = Non Detect

J = Estimated Value

¹ Field test kits followed Hach Method 8023

² Acid pillow added to blank sample before running sample due to elevated turbidity

³ Test kit performed two weeks after lab sample collected

TABLE 4-3
ANALYTICAL DETECTIONS MONITORING WELLS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 1 OF 5

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-FW-MW01-01192012	BPS1-FW-MW02-01172012	BPS1-FW-MW03-01192012	BPS1-HN-MW29I-01192012	BPS1-HN-MW29I-01192012 DUPLICATE	BPS1-TT-MW301S-01172012	BPS1-TT-MW301I-01172012	BPS1-TT-MW301D-01172012	BPS1-TT-MW301D-01232012
Sample Date				1/19/2012	1/17/2012	1/19/2012	1/19/2012	1/19/2012	1/17/2012	1/17/2012	1/17/2012	1/23/2012
Sample Interval (feet bgs)				48.5-63.5	49-64	52-67	120-130	120-130	51-61	130-140	210-220	210-220
Volatile Organic Compounds(µg/L)												
1,1,1-TRICHLOROETHANE	71-55-6	200	5	8.3	0.39 J	0.25 J	0.5 U	0.5 U	0.5 U	0.5 U	0.53 J	
1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	NE	50	1.2	0.36 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
1,1-DICHLOROETHANE	75-34-3	NE	5	3.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.22 J	
1,1-DICHLOROETHENE	75-35-4	7	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
CARBON DISULFIDE	75-15-0	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
CHLOROFORM	67-66-3	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
CIS-1,2-DICHLOROETHENE	156-59-2	70	5	70	0.5 U	0.49 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
METHYL ACETATE	79-20-9	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
METHYL TERT-BUTYL ETHER	1634-04-4	NE	10	0.5 U	0.35 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
TETRACHLOROETHENE	127-18-4	5	5	200	21	68	0.49 J	0.46 J	0.5 U	0.5 U	0.26 J	
TOLUENE	108-88-3	1000	5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.14 J	
TRANS-1,2-DICHLOROETHENE	156-60-5	5	5	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
TRICHLOROETHENE	79-01-6	5	5	21	2.7	3.7	0.5 U	0.5 U	0.5 U	0.5 U	2.6	
TRICHLOROFUOROMETHANE	75-69-4	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
Polychlorinated Biphenyls (µg/L)												
AROCLOR-1242	53469-21-9	0.5	0.5	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.79	0.75 J	
AROCLOR-1248	12672-29-6	0.5	0.5	0.46	0.3	1.9	0.63	0.66	10	0.08 U	0.08 U	
Metals (µg/L)												
CALCIUM	7440-70 -2	NE	NE				24000					
CHROMIUM	7440-47-3	100	100	4.4	8.5	4.6	5.5	5.2	2.5	7	92	
IRON	7439-89-6	NE	300	860	330	110	83	93	56	17 J	14 J	
SODIUM	82115-62-6	NE	NE				7800					
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³							5.3		86
Filtered Metals (µg/L)												
CHROMIUM	7440-47-3	100	100									
IRON	7439-89-6	NE	300									
Miscellaneous (µg/L)												
TOTAL ORGANIC CARBON		NE	NE									

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

bgs = below ground surface

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

Blank cell = No sample

NE = Not Established

Bolded value indicates exceedance of Federal or NYSDOH MCLs

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water

Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1

Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from

the NYSDOH website at

<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

TABLE 4-3
ANALYTICAL DETECTIONS MONITORING WELLS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 2 OF 5

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-TT-MW302S-01202012	BPS1-TT-MW302I1-01202012	BPS1-TT-MW302I2-01202012	BPS1-TT-MW302D-01202012	BPS1-TT-MW303S-01232012	BPS1-TT-MW303S-01232012 DUPLICATE	BPS1-TT-MW303I1-01192012	BPS1-TT-MW303I2-01192012	BPS1-TT-MW303D-01192012
Sample Date				1/20/2012	1/20/2012	1/20/2012	1/20/2012	1/23/2012	1/23/2012	1/19/2012	1/19/2012	1/19/2012
Sample Interval (feet bgs)				41-51	110-120	140-150	203-213	46-56	46-56	95-105	146-156	208-218
Volatile Organic Compounds(µg/L)												
1,1,1-TRICHLOROETHANE	71-55-6	200	5	0.5 U	0.35 J	0.5 U	0.23 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	75-34-3	NE	5	0.5 U	0.45 J	0.5 U	0.5 U	0.5 U	0.5 U	1.6	0.5 U	0.5 U
1,1-DICHLOROETHENE	75-35-4	7	5	0.5 U	0.5 U	0.5 U	0.62 J	0.5 U	0.5 U	1.6	0.5 U	0.5 U
CARBON DISULFIDE	75-15-0	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	67-66-3	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	156-59-2	70	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2	0.5 U	0.5 U
METHYL ACETATE	79-20-9	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	1634-04-4	NE	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	127-18-4	5	5	0.5 U	0.29 J	0.5 U	0.33 J	1.9	1.8	83	0.94 J	0.5 U
TOLUENE	108-88-3	1000	5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRANS-1,2-DICHLOROETHENE	156-60-5	5	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	79-01-6	5	5	0.5 U	1.7	1.8	3.9	2.7	2.7	18	1.6	0.51 J
TRICHLOROFLUOROMETHANE	75-69-4	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Polychlorinated Biphenyls (µg/L)												
AROCLOR-1242	53469-21-9	0.5	0.5	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	3.9	0.08 U	1.6
AROCLOR-1248	12672-29-6	0.5	0.5	0.43	1.2	1.9	0.85	0.21	0.2	0.08 U	2.4	0.085 U
Metals (µg/L)												
CALCIUM	7440-70 -2	NE	NE				8000					
CHROMIUM	7440-47-3	100	100	0.63 J	1.4	5.1	2.3	2.7	4.2	5.8	2.4	5.3
IRON	7439-89-6	NE	300	22	34	59	75	66 J	210 J	6000	69	520
SODIUM	82115-62-6	NE	NE				24000					
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³								1 U	
Filtered Metals (µg/L)												
CHROMIUM	7440-47-3	100	100							0.23 J		
IRON	7439-89-6	NE	300							70		
Miscellaneous (µg/L)												
TOTAL ORGANIC CARBON		NE	NE									

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

bgs = below ground surface

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

Blank cell = No sample

NE = Not Established

Bolded value indicates exceedance of Federal or NYSDOH MCLs

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water

Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1

Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from

the NYSDOH website at

<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

TABLE 4-3
ANALYTICAL DETECTIONS MONITORING WELLS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 3 OF 5

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-TT-MW304S-01182012	BPS1-TT-MW304I1-01182012	BPS1-TT-MW304I2-01182012	BPS1-TT-MW304I2-01182012 DUPLICATE	BPS1-TT-MW304D-01192012	BPS1-TT-MW305S-01172012	BPS1-TT-MW305S-01172012 DUPLICATE	BPS1-TT-MW305I-01172012	BPS1-TT-MW305D-01172012
Sample Date				1/18/2012	1/18/2012	1/18/2012	1/18/2012	1/19/2012	1/17/2012	1/17/2012	1/17/2012	1/17/2012
Sample Interval (feet bgs)				43-53	102-112	140-150	140-150	180-190	40-50	40-50	190-200	286-296
Volatile Organic Compounds(µg/L)												
1,1,1-TRICHLOROETHANE	71-55-6	200	5	0.5 U	1.7	0.26 J	0.23 J	0.5 U	0.5 U	0.5 U	0.28 J	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.33 J
1,1-DICHLOROETHANE	75-34-3	NE	5	0.5 U	1.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.7	0.57 J
1,1-DICHLOROETHENE	75-35-4	7	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.73 J
CARBON DISULFIDE	75-15-0	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	67-66-3	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.27 J	0.19 J
CIS-1,2-DICHLOROETHENE	156-59-2	70	5	0.5 U	6	2.7	2.8	0.5 U	0.5 U	0.5 U	4.7	0.5 U
METHYL ACETATE	79-20-9	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	1634-04-4	NE	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	127-18-4	5	5	0.5 U	25	5.5	5.5	0.5 U	0.5 U	0.5 U	3.3	1.9
TOLUENE	108-88-3	1000	5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRANS-1,2-DICHLOROETHENE	156-60-5	5	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	79-01-6	5	5	0.5 U	4.1	1.7	1.8	0.5 U	0.5 U	0.5 U	3900	140
TRICHLOROFUOROMETHANE	75-69-4	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.91 J	0.94 J
Polychlorinated Biphenyls (µg/L)												
AROCLOR-1242	53469-21-9	0.5	0.5	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.08 U	0.16 J
AROCLOR-1248	12672-29-6	0.5	0.5	0.08 U	0.97	1.5	1.6	4.2	0.08 U	0.08 U	1.3	0.08 U
Metals (µg/L)												
CALCIUM	7440-70 -2	NE	NE									
CHROMIUM	7440-47-3	100	100	1.4	38	200	170	4.5	2.4	2.6	3.5	22
IRON	7439-89-6	NE	300	58	400	16 J	10 J	160	560	650	1100	1100
SODIUM	82115-62-6	NE	NE									
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³		35.5	181	182					1 U
Filtered Metals (µg/L)												
CHROMIUM	7440-47-3	100	100									
IRON	7439-89-6	NE	300									
Miscellaneous (µg/L)												
TOTAL ORGANIC CARBON		NE	NE									

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

bgs = below ground surface

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

Blank cell = No sample

NE = Not Established

Bolded value indicates exceedance of Federal or NYSDOH MCLs

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water

Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1

Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from

the NYSDOH website at

<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

TABLE 4-3
ANALYTICAL DETECTIONS MONITORING WELLS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 4 OF 5

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-TT-MW306S-01232012	BPS1-TT-MW306I-01232012	BPS1-TT-MW306D-01232012	BPS1-TT-MW307S-01182012	BPS1-TT-MW307I-01182012	BPS1-TT-MW307D-01182012	BPS1-TT-MW308S-01162012	BPS1-TT-MW308I-01162012	BPS1-TT-MW308D-01162012
Sample Date				1/23/2012	1/23/2012	1/23/2012	1/18/2012	1/18/2012	1/18/2012	1/16/2012	1/16/2012	1/16/2012
Sample Interval (feet bgs)				50-60	189-199	284-294	40.5-50.5	188-198	276-286	54-64	156-166	250-260
Volatile Organic Compounds (µg/L)												
1,1,1-TRICHLOROETHANE	71-55-6	200	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	75-34-3	NE	5	0.5 U	0.5 U	0.5 U	0.24 J	0.23 J	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	75-35-4	7	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON DISULFIDE	75-15-0	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	67-66-3	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.19 J
CIS-1,2-DICHLOROETHENE	156-59-2	70	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL ACETATE	79-20-9	NE	50	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	1634-04-4	NE	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	127-18-4	5	5	0.4 J	0.5 U	0.44 J	1.3	1.1	0.5 U	0.5 U	0.5 U	0.7 J
TOLUENE	108-88-3	1000	5	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
TRANS-1,2-DICHLOROETHENE	156-60-5	5	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	79-01-6	5	5	0.5 U	0.54 J	2.4	0.57 J	1.8	0.5 U	0.71 J	0.5 U	1.6
TRICHLOROFUOROMETHANE	75-69-4	NE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Polychlorinated Biphenyls (µg/L)												
AROCLOR-1242	53469-21-9	0.5	0.5	0.08 U	0.08 U	0.61 J	0.08 U	0.08 U	0.56	0.08 U	0.52	0.073 J
AROCLOR-1248	12672-29-6	0.5	0.5	0.54	1.8	0.08 U	0.08 U	0.84	0.08 U	0.2	0.08 U	0.08 U
Metals (µg/L)												
CALCIUM	7440-70-2	NE	NE									
CHROMIUM	7440-47-3	100	100	1.3	2.3	1.2	4	12	13	10	10	17
IRON	7439-89-6	NE	300	310	93	77	530	460	460	150	240	240
SODIUM	82115-62-6	NE	NE									
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³	1 U	1 U			1 U				
Filtered Metals (µg/L)												
CHROMIUM	7440-47-3	100	100									
IRON	7439-89-6	NE	300									
Miscellaneous (µg/L)												
TOTAL ORGANIC CARBON		NE	NE	710 J	3300	1100						

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

bgs = below ground surface

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

Blank cell = No sample

NE = Not Established

Bolded value indicates exceedance of Federal or NYSDOH MCLs

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water

Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1

Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from

the NYSDOH website at

<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

TABLE 4-3
ANALYTICAL DETECTIONS MONITORING WELLS
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK
PAGE 5 OF 5

	CAS No.	Federal MCLs ⁽¹⁾	NYSDOH MCLs ⁽²⁾	BPS1-TT-MW309S-01102012	BPS1-TT-MW309I-01112012	BPS1-TT-MW309D-01112012
Sample Date				1/10/2012	1/11/2012	1/11/2012
Sample Interval (feet bgs)				53-63	160-170	252-262
Volatile Organic Compounds(µg/L)						
1,1,1-TRICHLOROETHANE	71-55-6	200	5	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	76-13-1	NE	50	0.5 U	0.5 U	0.45 J
1,1-DICHLOROETHANE	75-34-3	NE	5	0.5 U	0.5 U	0.27 J
1,1-DICHLOROETHENE	75-35-4	7	5	0.5 U	0.5 U	0.5 U
CARBON DISULFIDE	75-15-0	NE	50	0.5 U	0.5 U	0.5 U
CHLOROFORM	67-66-3	NE	50	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	156-59-2	70	5	0.5 U	0.5 U	0.5 U
METHYL ACETATE	79-20-9	NE	50	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	1634-04-4	NE	10	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	127-18-4	5	5	0.5 U	0.5 U	1.1
TOLUENE	108-88-3	1000	5	0.1 U	0.1 U	0.1 U
TRANS-1,2-DICHLOROETHENE	156-60-5	5	5	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	79-01-6	5	5	0.61 J	0.5 U	1.8
TRICHLOROFUOROMETHANE	75-69-4	NE	50	0.5 U	0.5 U	0.5 U
Polychlorinated Biphenyls (µg/L)						
AROCLOR-1242	53469-21-9	0.5	0.5	0.086 U	0.43	0.085 U
AROCLOR-1248	12672-29-6	0.5	0.5	1	0.08 U	0.085 U
Metals (µg/L)						
CALCIUM	7440-70 -2	NE	NE			
CHROMIUM	7440-47-3	100	100	18	49	7.5
IRON	7439-89-6	NE	300	2100	130	2400
SODIUM	82115-62-6	NE	NE			
HEXAVALENT CHROMIUM	18540-29-9	100 ³	100 ³	8.9 J	47.7	1 U
Filtered Metals (µg/L)						
CHROMIUM	7440-47-3	100	100	13		0.56 J
IRON	7439-89-6	NE	300	92		31
Miscellaneous (µg/L)						
TOTAL ORGANIC CARBON		NE	NE			

Notes:

MCL = Maximum Contaminant Level

NYSDOH = New York State Department of Health

bgs = below ground surface

µg/L = micrograms per liter

U = Non Detect

J = Estimated Value

Blank cell = No sample

NE = Not Established

Bolded value indicates exceedance of Federal or NYSDOH MCLs

¹ (USEPA, 2007) Drinking Water Contaminants National Primary Drinking Water

Regulations, from the USEPA website at

<http://www.epa.gov/safewater/contaminants/index.html#primary>

² (NYSDOH, 2004) New York Public Supply Regulations, 10 NYCRR Part 5, Subpart 5-1

Public Water Systems, Table 3-Organic Chemicals Maximum Contaminant Level

Determination and Table 9D - Organic Chemicals - Principal Organic Contaminants, from

the NYSDOH website at




<http://www.health.state.ny.us/environmental/water/drinking/part5/subpart5.htm>

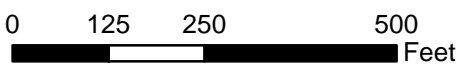
³ There is no promulgated Hexavalent Chromium standard. Total Chromium MCL used instead.

FIGURES



Legend

-  Dry Well
-  Fence Line
-  Site Boundary





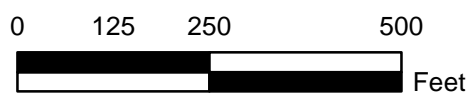
**SITE 1
FORMER DRUM MARSHALLING AREA
LAYOUT MAP
NWIRP BETHPAGE
BETHPAGE, NEW YORK**

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	2-1	REV	DATE
			8/2/12



Legend

-  Surface Water
-  Existing Monitoring Well





Sample Location Map
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York

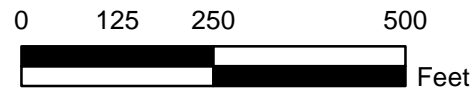
FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 3-1	DATE	8/2/12



Legend

-  Existing Monitoring Well
-  Groundwater Contours (Feet MSL)
- 72.59** Groundwater Elevation (feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level





**Potentiometric Surface Map
Shallow January 2012
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York**

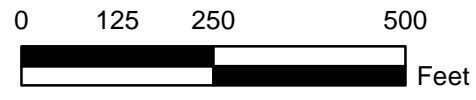
FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 3-2	REV	DATE
			8/2/12



Legend

-  Existing Monitoring Well
-  Groundwater Contours (Feet MSL)
- 72.59** Groundwater Elevation (feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level





**Potentiometric Surface Map
Intermediate January 2012
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York**

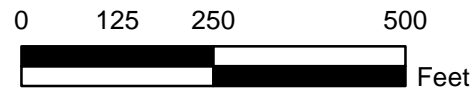
FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 3-3	REV	DATE
			8/2/12



Legend

-  Existing Monitoring Well
-  Groundwater Contours (Feet MSL)
- 72.59** Groundwater Elevation (feet MSL)

Notes:
Dashed lines are inferred
MSL-mean sea level




**Potentiometric Surface Map
Deep January 2012
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York**

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 3-4	REV	DATE 8/2/12



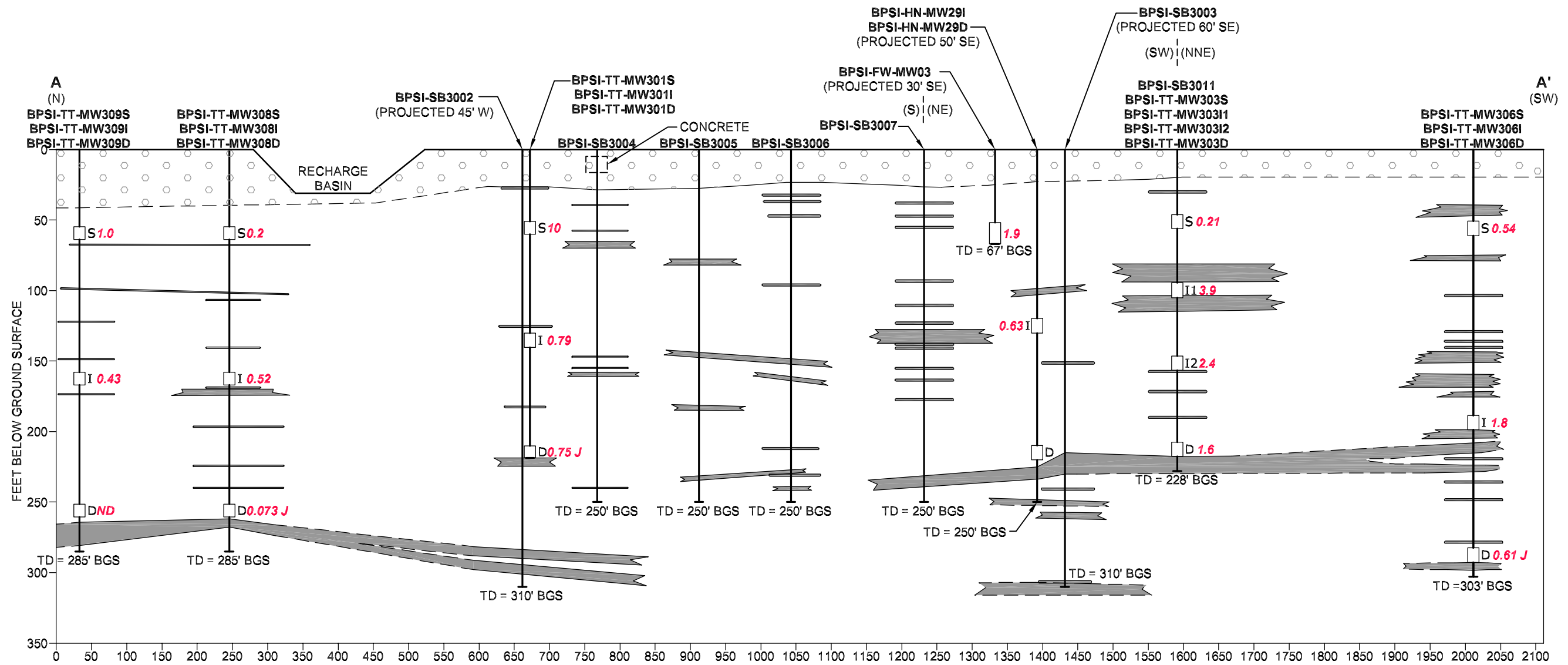
Legend

 Existing Monitoring Well



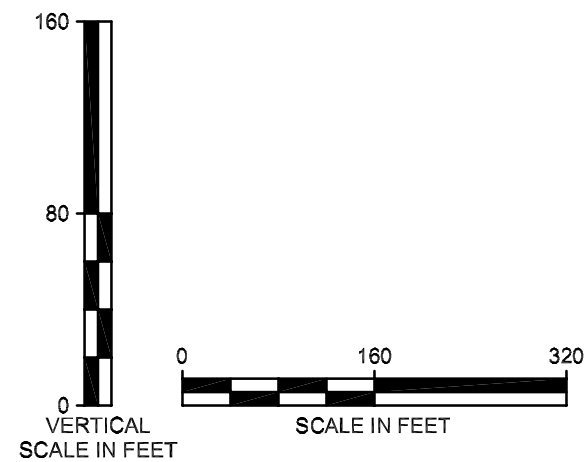
Cross Section Location Map
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 4-1	REV	DATE
			8/2/12

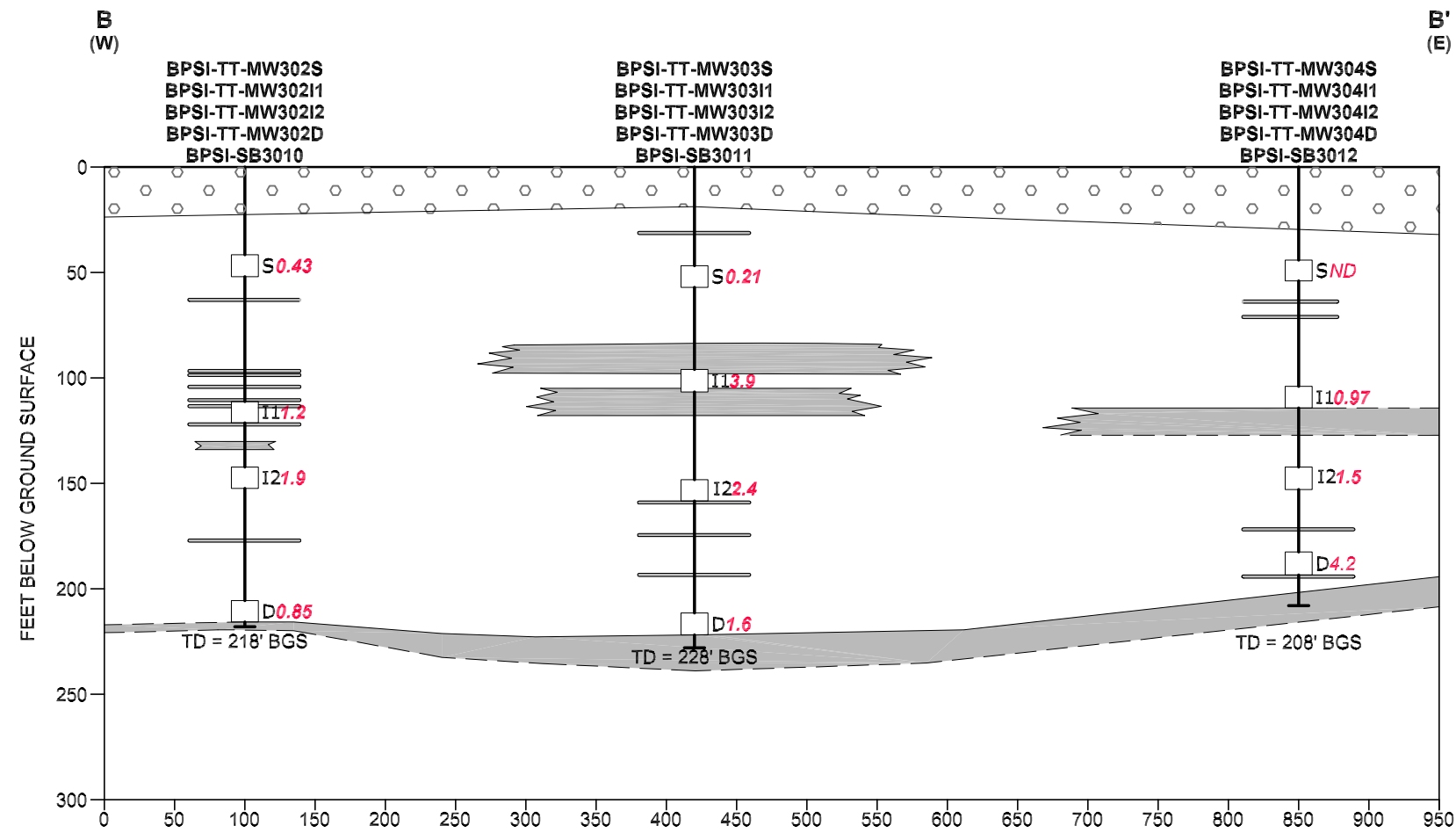


LEGEND




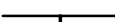



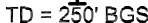
- SAND AND GRAVEL
- SAND WITH VARYING AMOUNTS OF SILT, CLAY, AND GRAVEL
- CLAY, CLAYEY SILT, OR SILT
- BPSI-SB3011** SOIL BORING
- BPSI-TT-MW303S** MONITORING WELL
- (PROJECTED 50' NW) PROJECTED DISTANCE AND DIRECTION TO CROSS SECTION LINE
- GROUND SURFACE (APPROXIMATED TO BE FLAT)
- SILT OR CLAY LAYER (DASHED WHERE INFERRED)
- SILT OR CLAY LENS (FEW INCHES THICK)
- MONITORING WELL SCREEN AND JANUARY 2012 TOTAL PCBs IN MICROGRAMS PER LITER (µg/L)
- TD = 250' BGS
- ND NON-DETECT

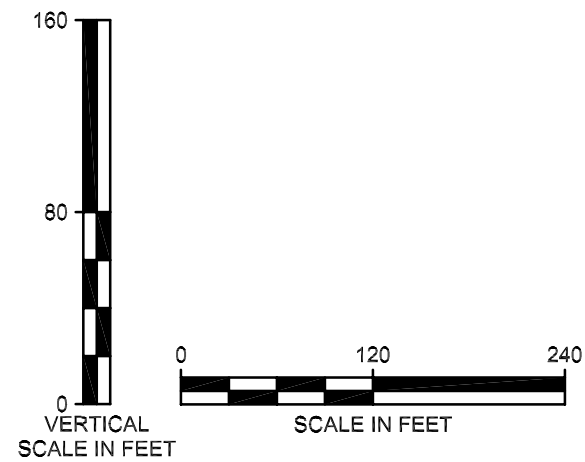


TETRA TECH	
GEOLOGIC CROSS SECTION A - A' SITE 1 - FORMER DRUM MARSHALLING AREA NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK	
FILE 112G01041GS46	SCALE AS NOTED
FIGURE NUMBER FIGURE 4-2	REV DATE 0 06/06/12



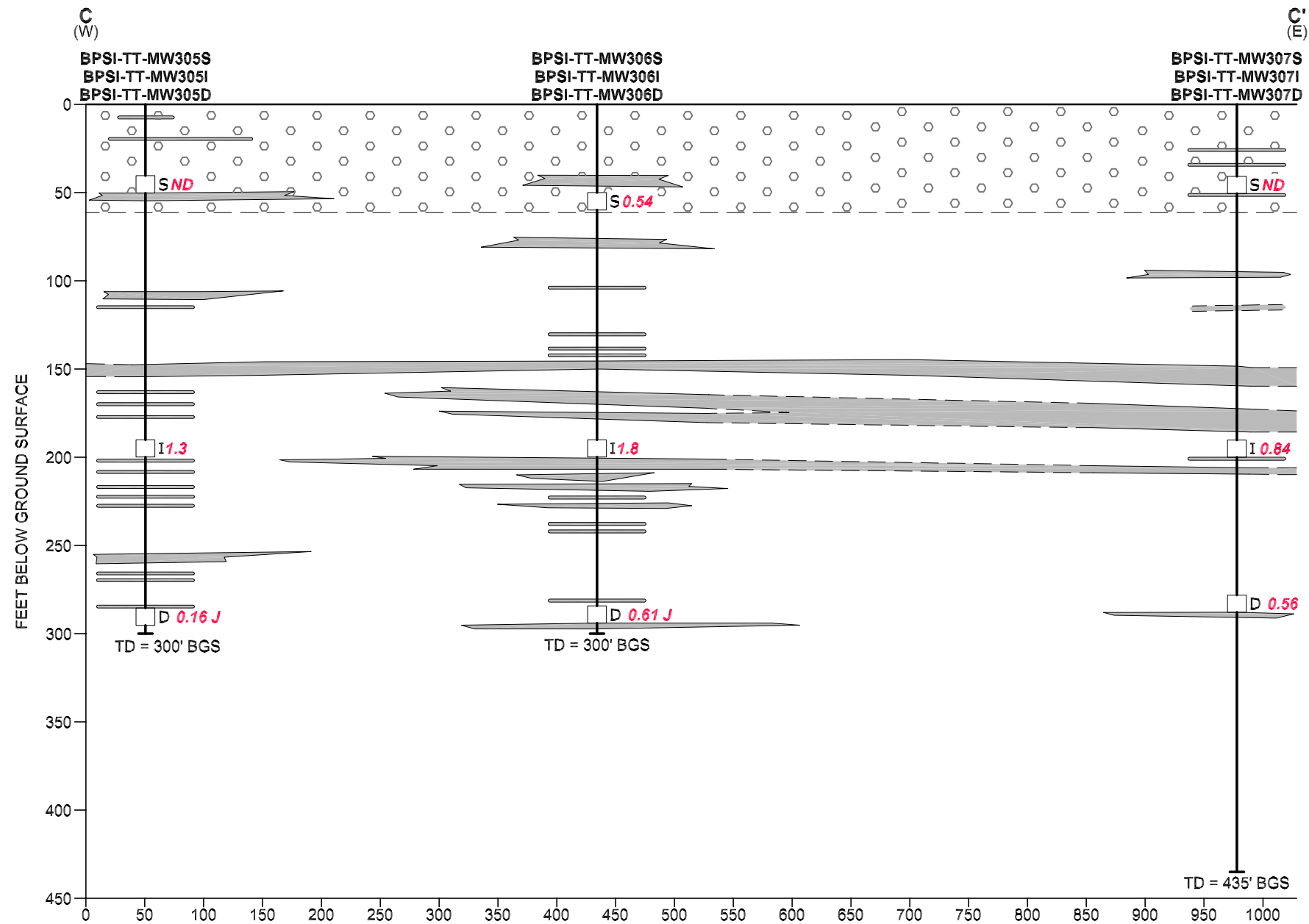
LEGEND

-  SAND AND GRAVEL
-  SAND WITH VARYING AMOUNTS OF SILT, CLAY, AND GRAVEL
-  CLAY, CLAYEY SILT, OR SILT
- BPSI-SB3011** SOIL BORING
- BPSI-TT-MW303S** MONITORING WELL
- (PROJECTED 50' NW)  GROUND SURFACE (APPROXIMATED TO BE FLAT)
-  SILT OR CLAY LAYER (DASHED WHERE INFERRED)
-  SILT OR CLAY LENS (FEW INCHES THICK)
-  MONITORING WELL SCREEN AND JANUARY 2012 TOTAL PCBs IN MICROGRAMS PER LITER (µg/L)
-  TOTAL DEPTH FEET BELOW GROUND SURFACE (BGS)
- ND** NON-DETECT

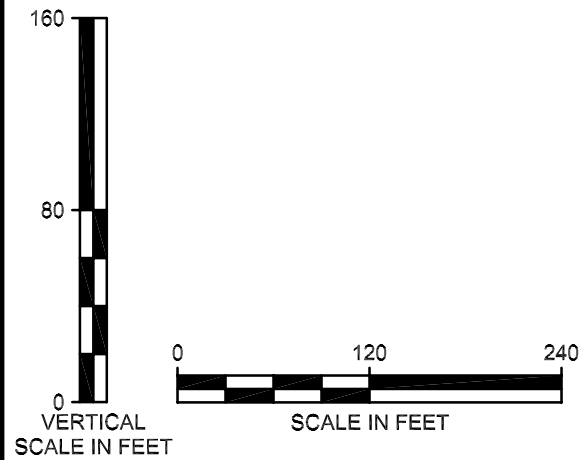


GEOLOGIC CROSS SECTION B - B'
 SITE 1 - FORMER DRUM
 MARSHALLING AREA
 NAVAL WEAPONS INDUSTRIAL
 RESERVE PLANT
 BETHPAGE, NEW YORK

FILE 112G01041GS44	SCALE AS NOTED
FIGURE NUMBER FIGURE 4-3	REV DATE 0 04/03/12




- LEGEND**
- SAND AND GRAVEL
 - SAND WITH VARYING AMOUNTS OF SILT, CLAY, AND GRAVEL
 - CLAY, CLAYEY SILT, OR SANDY CLAY
 - BPSI-TT-MW305S** MONITORING WELL
 - GROUND SURFACE (APPROXIMATED TO BE FLAT)
 - SILT OR CLAY LAYER (DASHED WHERE INFERRED)
 - SILT OR CLAY LENS (FEW INCHES THICK)
 - MONITORING WELL SCREEN AND JANUARY 2012 TOTAL PCBs IN MICROGRAMS PER LITER ($\mu\text{g/L}$)
 - TOTAL DEPTH FEET BELOW GROUND SURFACE (BGS)
 - ND* NON-DETECT
 - J* ESTIMATED VALUE

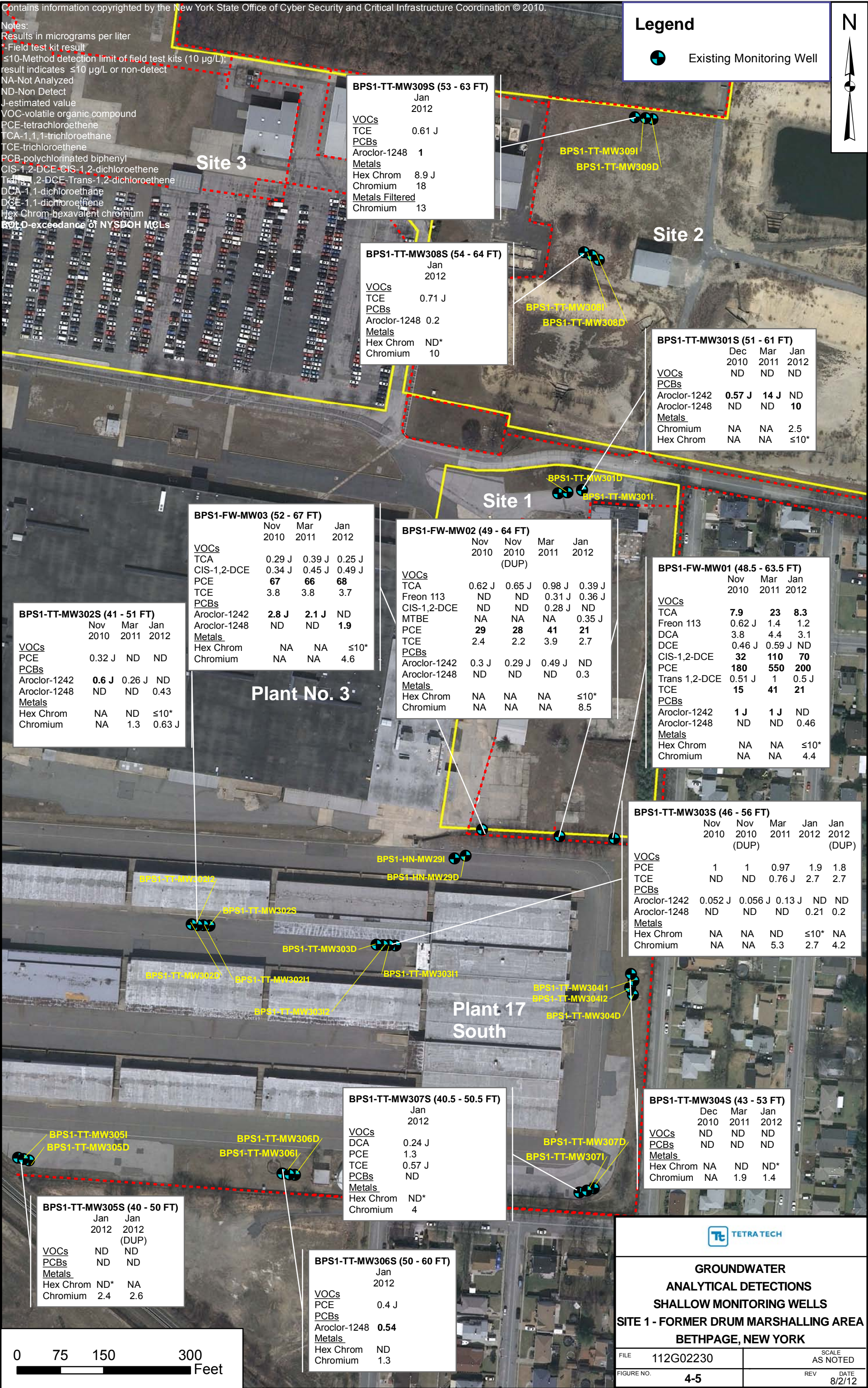


GEOLOGIC CROSS SECTION C - C' SITE 1 - FORMER DRUM MARSHALLING AREA NAVAL WEAPONS INDUSTRIAL RESERVE PLANT BETHPAGE, NEW YORK	
FILE 112G01041GS45	SCALE AS NOTED
FIGURE NUMBER FIGURE 4-4	REV DATE 0 04/03/12

Notes:
 Results in micrograms per liter
 *Field test kit result
 ≤10-Method detection limit of field test kits (10 µg/L);
 result indicates ≤10 µg/L or non-detect
 NA-Not Analyzed
 ND-Non Detect
 J-estimated value
 VOC-volatile organic compound
 PCE-tetrachloroethene
 TCA-1,1,1-trichloroethane
 TCE-trichloroethene
 PCB-polychlorinated biphenyl
 CIS-1,2-DCE-CIS-1,2-dichloroethene
 Trans-1,2-DCE-Trans-1,2-dichloroethene
 DCA-1,1-dichloroethane
 DCE-1,1-dichloroethene
 Hex Chrom-hexavalent chromium
BOLD-exceedance of NYSDOH MCLs

Legend

 Existing Monitoring Well



BPS1-TT-MW309S (53 - 63 FT)

Jan 2012
VOCs
TCE 0.61 J
PCBs
Aroclor-1248 1
Metals
Hex Chrom 8.9 J
Chromium 18
Metals Filtered
Chromium 13

BPS1-TT-MW308S (54 - 64 FT)

Jan 2012
VOCs
TCE 0.71 J
PCBs
Aroclor-1248 0.2
Metals
Hex Chrom ND*
Chromium 10

BPS1-TT-MW301S (51 - 61 FT)

Dec 2010	Mar 2011	Jan 2012
VOCs		
PCBs		
Aroclor-1242 0.57 J	14 J	ND
Aroclor-1248 ND	ND	10
Metals		
Chromium NA	NA	2.5
Hex Chrom NA	NA	≤10*

BPS1-FW-MW03 (52 - 67 FT)

Nov 2010	Mar 2011	Jan 2012
VOCs		
TCA 0.29 J	0.39 J	0.25 J
CIS-1,2-DCE 0.34 J	0.45 J	0.49 J
PCE 67	66	68
TCE 3.8	3.8	3.7
PCBs		
Aroclor-1242 2.8 J	2.1 J	ND
Aroclor-1248 ND	ND	1.9
Metals		
Hex Chrom NA	NA	≤10*
Chromium NA	NA	4.6

BPS1-FW-MW02 (49 - 64 FT)

Nov 2010	Nov 2010 (DUP)	Mar 2011	Jan 2012
VOCs			
TCA 0.62 J	0.65 J	0.98 J	0.39 J
Freon 113 ND	ND	0.31 J	0.36 J
CIS-1,2-DCE ND	ND	0.28 J	ND
MTBE NA	NA	NA	0.35 J
PCE 29	28	41	21
TCE 2.4	2.2	3.9	2.7
PCBs			
Aroclor-1242 0.3 J	0.29 J	0.49 J	ND
Aroclor-1248 ND	ND	ND	0.3
Metals			
Hex Chrom NA	NA	NA	≤10*
Chromium NA	NA	NA	8.5

BPS1-FW-MW01 (48.5 - 63.5 FT)

Nov 2010	Mar 2011	Jan 2012
VOCs		
TCA 7.9	23	8.3
Freon 113 0.62 J	1.4	1.2
DCA 3.8	4.4	3.1
DCE 0.46 J	0.59 J	ND
CIS-1,2-DCE 32	110	70
PCE 180	550	200
Trans 1,2-DCE 0.51 J	1	0.5 J
TCE 15	41	21
PCBs		
Aroclor-1242 1 J	1 J	ND
Aroclor-1248 ND	ND	0.46
Metals		
Hex Chrom NA	NA	≤10*
Chromium NA	NA	4.4

BPS1-TT-MW302S (41 - 51 FT)

Nov 2010	Mar 2011	Jan 2012
VOCs		
PCE 0.32 J	ND	ND
PCBs		
Aroclor-1242 0.6 J	0.26 J	ND
Aroclor-1248 ND	ND	0.43
Metals		
Hex Chrom NA	ND	≤10*
Chromium NA	1.3	0.63 J

BPS1-TT-MW303S (46 - 56 FT)

Nov 2010	Nov 2010 (DUP)	Mar 2011	Jan 2012	Jan 2012 (DUP)
VOCs				
PCE 1	1	0.97	1.9	1.8
TCE ND	ND	0.76 J	2.7	2.7
PCBs				
Aroclor-1242 0.052 J	0.056 J	0.13 J	ND	ND
Aroclor-1248 ND	ND	ND	0.21	0.2
Metals				
Hex Chrom NA	NA	ND	≤10*	NA
Chromium NA	NA	5.3	2.7	4.2

BPS1-TT-MW307S (40.5 - 50.5 FT)

Jan 2012
VOCs
DCA 0.24 J
PCE 1.3
TCE 0.57 J
PCBs
ND
Metals
Hex Chrom ND*
Chromium 4

BPS1-TT-MW304S (43 - 53 FT)

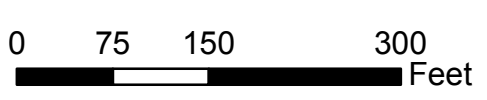
Dec 2010	Mar 2011	Jan 2012
VOCs		
ND	ND	ND
PCBs		
ND	ND	ND
Metals		
Hex Chrom NA	ND	ND*
Chromium NA	1.9	1.4

BPS1-TT-MW305S (40 - 50 FT)

Jan 2012	Jan 2012 (DUP)
VOCs	
ND	ND
PCBs	
ND	ND
Metals	
Hex Chrom ND*	NA
Chromium 2.4	2.6

BPS1-TT-MW306S (50 - 60 FT)

Jan 2012
VOCs
PCE 0.4 J
PCBs
Aroclor-1248 0.54
Metals
Hex Chrom ND
Chromium 1.3



GROUNDWATER ANALYTICAL DETECTIONS SHALLOW MONITORING WELLS SITE 1 - FORMER DRUM MARSHALLING AREA BETHPAGE, NEW YORK

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	4-5	REV	DATE
			8/2/12

- Notes:
 Results in micrograms per liter
 *Field test kit result
 J-estimated value
 ≤10-Method detection limit of field test kits (10 µg/L);
 result indicates ≤10 µg/L or non-detect
 NA-Not Analyzed
 ND-Non Detect
 VOC-volatile organic compound
 PCE-tetrachloroethene
 TCE-trichloroethene
 TCA-1,1,1-trichloroethane
 PCB-polychlorinated biphenyl
 CIS-1,2-DCE-CIS-1,2-dichloroethene
 Trans-1,2-DCE-Trans-1,2-dichloroethene
 DCA-1,1-dichloroethane
 DCE-1,1-dichloroethene
 Carbon Tet-Carbon Tetrachloride
 Hex Chrom-hexavalent chromium
BOLD-Exceedance of NYSDOH MCL

Legend

Existing Monitoring Well



BPS1-TT-MW30212 (140 - 150 FT)

	Nov 2010	Mar 2011	Jan 2012
VOCs			
TCE	0.88 J	1.1 J	1.8
PCBs			
Aroclor-1242	2.6 J	1.8 J	ND
Aroclor-1248	ND	ND	1.9
Metals			
Hex Chrom	NA	NA	≤10*
Chromium	NA	NA	5.1

BPS1-TT-MW3091 (160 - 170 FT)

	Jan 2012
VOCs	
PCBs	ND
Aroclor-1242	0.43
Metals	
Hex Chrom	47.7
Chromium	49

BPS1-TT-MW3081 (156 - 166 FT)

	Jan 2012
VOCs	
PCBs	ND
Aroclor-1242	0.52
Metals	
Hex Chrom	ND*
Chromium	10

BPS1-TT-MW30211 (110 - 120 FT)

	Nov 2010	Mar 2011	Jan 2012
VOCs			
DCA	ND	ND	0.45 J
TCA	ND	0.19 J	0.35 J
PCE	ND	0.19 J	0.29 J
TCE	0.55 J	0.76 J	1.7
PCBs			
Aroclor-1242	2 J	1.9 J	ND
Aroclor-1248	ND	ND	1.2
Metals			
Hex Chrom	NA	NA	≤10*
Chromium	NA	NA	1.4

BPS1-TT-MW3011 (130 - 140 FT)

	Dec 2010	Mar 2011	Jan 2012
VOCs			
PCBs	ND	ND	ND
Aroclor-1242	0.69 J	0.73 J	0.79
Metals			
Hex Chrom	NA	4.5	5.3
Chromium	NA	7.7	7

BPS1-TT-MW3051 (190 - 200 FT)

	Jan 2012
VOCs	
DCA	2.7
DCE	1.3
TCA	0.28 J
CIS-1,2-DCE	4.7
PCE	3.3
TCE	3,900
Carbon Tet	0.49 J
Chloroform	0.27 J
Freon 113	1.1
Freon 11	0.91 J
PCBs	
Aroclor-1248	1.3
Metals	
Hex Chrom	ND*
Chromium	3.5

BPS1-TT-MW30312 (146 - 156 FT)

	Nov 2010	Mar 2011	Jan 2012
VOCs			
PCE	2.1	1.5	0.94 J
TCE	2.6	1.9	1.6
Freon 11	0.23 J	ND	ND
PCBs			
Aroclor-1242	3.4 J	2.3 J	ND
Aroclor-1248	ND	ND	2.4
Metals			
Hex Chrom	NA	NA	ND
Chromium	NA	NA	2.4

BPS1-HN-MW291 (120 - 130 FT)

	Dec 2010	Mar 2011	Jan 2012	Jan 2012 (DUP)
VOCs				
PCE	1.3	0.58 J	0.49 J	0.46 J
TCE	0.57 J	0.40 J	ND	ND
PCBs				
Aroclor-1242	0.94 J	1.2 J	ND	ND
Aroclor-1248	ND	ND	0.63	0.66
Metals				
Hex Chrom	NA	1.1	≤10*	NA
Chromium	NA	2	5.5	5.2

BPS1-TT-MW30311 (95 - 105 FT)

	Nov 2010	Mar 2011	Jan 2012
VOCs			
DCA	1.7	2.4	1.6
DCE	2	2.7	1.6
CIS-1,2-DCE	1.9	3.4	2
Freon 12	0.28 J	ND	ND
PCE	79	120	83
TCE	17	25	18
Freon 11	0.3 J	ND	ND
PCBs			
Aroclor-1242	3.9 J	2.8 J	3.9
Metals			
Hex Chrom	NA	1.1	ND*
Chromium	NA	2	5.8
Metals Filtered			
Chromium	NA	ND	0.23 J

BPS1-TT-MW30412 (140 - 150 FT)

	Nov 2010	Mar 2011	Jan 2012	Jan 2012 (DUP)
VOCs				
TCA	0.64 J	0.31 J	0.26 J	0.23 J
DCA	0.51 J	ND	ND	ND
CIS-1,2-DCE	8.8	3.1	2.7	2.8
PCE	17	4.8	5.5	5.5
TCE	5.4	1.4	1.7	1.8
PCBs				
Aroclor-1242	1.7 J	2.6 J	ND	ND
Aroclor-1248	ND	ND	1.5	1.6
Metals				
Hex Chrom	NA	166	181	182
Chromium	NA	180	200	170

BPS1-TT-MW3071 (188 - 198 FT)

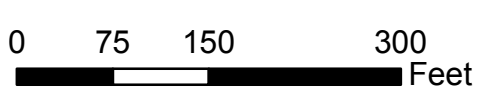
	Jan 2012
VOCs	
DCA	0.23 J
Carbon Disulfide	0.2 J
PCE	1.1
TCE	1.8
PCBs	
Aroclor-1248	0.84
Metals	
Hex Chrom	ND
Chromium	12

BPS1-TT-MW30411 (102 - 112 FT)

	Dec 2010	Mar 2011	Jan 2012
VOCs			
TCA	15	6.1	1.7
Freon 113	0.44 J	ND	ND
DCA	6.9	3.1	1.6
DCE	1	0.35 J	ND
CIS-1,2-DCE	85	35	6
PCE	93	54	25
Trans-1,2-DCE	0.7 J	0.26 J	ND
TCE	27	11	4.1
PCBs			
Aroclor-1242	0.5 J	0.89 J	ND
Aroclor-1248	ND	ND	0.97
Metals			
Hex Chrom	NA	58	35.5
Chromium	NA	55	38

BPS1-TT-MW3061 (189 - 199 FT)

	Jan 2012
VOCs	
TCE	0.54 J
PCBs	
Aroclor-1248	1.8
Metals	
Hex Chrom	ND
Chromium	2.3




TETRA TECH

GROUNDWATER ANALYTICAL DETECTIONS INTERMEDIATE MONITORING WELLS SITE 1-FORMER DRUM MARSHALLING AREA BETHPAGE, NEW YORK

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	4-6	REV	DATE
			8/2/12

Notes:
 J-Estimated value
 Results in micrograms per liter
 *Field test kit result
 ≤10-Method detection limit of field test kits (10 µg/L);
 result indicates ≤10 µg/L or non-detect
 NA-Not Analyzed
 ND-Non Detect
 VOC-volatile organic compound
 PCE-tetrachloroethene
 TCA-1,1,1-trichloroethane
 TCE-trichloroethene
 PCB-polychlorinated biphenyl
 CIS-1,2-DCE-CIS-1,2-dichloroethene
 Trans-1,2-DCE-Trans-1,2-dichloroethene
 DCA-1,1-dichloroethane
 DCE-1,1-dichloroethene
 Hex Chrom-Hexavalent chromium
BOLD-Exceedance of NYSDOH MCLs

Legend

 Existing Monitoring Well



BPS1-TT-MW309D (252 - 262 FT)

Jan 2012
VOCs
DCA 0.27 J
PCE 1.1
TCE 1.8
Freon 113 0.45 J
PCBs ND
Metals
Hex Chrom ND
Chromium 7.5
Metals Filtered
Chromium 0.56 J

BPS1-TT-MW308D (250 - 260 FT)

Jan 2012
VOCs
PCE 0.7 J
TCE 1.6
Chloroform 0.19 J
PCBs
Aroclor-1242 0.073 J
Metals
Hex Chrom ≤10*
Chromium 17

BPS1-TT-MW301D (210 - 220 FT)

Dec 2010	Mar 2011	Mar 2011 (DUP)	Jan 2012
VOCs			
DCA ND	ND	ND	0.22 J
TCA 0.45 J	0.34 J	0.37 J	0.53 J
CIS-1,2-DCE 0.57 J	ND	ND	ND
PCE 0.5 J	0.24 J	0.25 J	0.26 J
TCE 2.1	1.4	1.4	2.6
Toluene ND	ND	ND	0.14 J
PCBs			
Aroclor-1242 0.79 J	0.82 J	0.87 J	0.75
Metals			
Hex Chrom NA	NA	NA	86
Chromium NA	NA	NA	92

BPS1-TT-MW302D (203 - 213 FT)

Dec 2010	Mar 2011	Jan 2012
VOCs		
DCE ND	ND	0.62 J
TCA ND	ND	0.23 J
PCE ND	0.22 J	0.33 J
Toluene 0.25 J	0.17 J	ND
TCE 1	1.4	ND
PCBs		
Aroclor-1242 1.1 J	1.3 J	ND
Aroclor-1248 ND	ND	0.85
Metals		
Hex Chrom NA	NA	ND*
Chromium NA	NA	2.3

BPS1-TT-MW305D (286 - 296 FT)

Jan 2012
VOCs
DCA 0.57 J
DCE 0.73 J
PCE 1.9
TCE 140
Chloroform 0.19 J
Freon 113 0.33 J
Freon 11 0.94 J
PCBs
Aroclor-1242 0.16 J
Metals
Hex Chrom ND
Chromium 22

BPS1-TT-MW303D (208 - 218 FT)

Nov 2010	Mar 2011	Jan 2012
VOCs		
TCE 0.45 J	0.40 J	0.51 J
PCBs		
Aroclor-1242 0.42 J	0.66 J	1.6 J
Metals		
Hex Chrom NA	NA	ND*
Chromium NA	NA	5.3

BPS1-TT-MW304D (180 -190 FT)

Dec 2010	Mar 2011	Mar 2011 (DUP)	Jan 2012
VOCs			
PCE 0.5 J	ND	ND	ND
PCBs			
Aroclor-1242 4 J	2.7 J	2.9 J	ND
Aroclor-1248 ND	ND	ND	4.2
Metals			
Hex Chrom NA	ND	ND	ND*
Chromium NA	1	9.5	4.5

BPS1-TT-MW307D (276 - 286 FT)

Jan 2012
VOCs
PCE ND
TCE ND
PCBs
Aroclor-1242 0.56
Metals
Hex Chrom ND*
Chromium 13

BPS1-TT-MW306D (284 - 294 FT)

Jan 2012
VOCs
PCE 0.44 J
TCE 2.4
PCBs
Aroclor-1242 0.61 J
Metals
Hex Chrom ≤10*
Chromium 1.2

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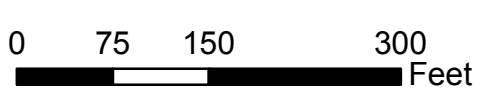
Plant No. 3

Site 1

Plant 17 South

Site 3

Site 2



TETRA TECH

GROUNDWATER ANALYTICAL DETECTIONS DEEP MONITORING WELLS SITE 1-FORMER DRUM MARSHALLING AREA BETHPAGE, NEW YORK

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	4-7	REV	DATE
			8/2/12

APPENDICES

Appendix A
Field Forms, Logsheets, and Documentation

Boring Logs



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/12/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-1	0-1	/				Dark Brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0	
	1-2	/					trace-little, med. Gravel,moist.	SM	Set 8" ID steel surface					
	2-3	/							casing to 25'					
	3-4	/							(Gueci - Failing F10)					
	4-5	/												
S-2	5-6	/				Dark Brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0	
	6-7	/					trace-little, med. Gravel,moist.	SM						
	7-8	/												
	8-9	/												
	9-10	/												
S-3	10-11	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0	
	11-12	/					little- med. to coarse gravel.	SM/ML						
	12-13	/					(11'-12' silt)		Geophysical log.					
	13-14	/					moist							
	14-15	/												
S-4	15-16	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0	
	16-17	/					little- med. to coarse gravel.	SM						
	17-18	/					moist							
	18-19	/												
	19-20	/												
S-5	20-21	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0	
	21-22	/					little- med. to coarse gravel.	SM						
	22-23	/					moist							
	23-24	/								Lost +/- 200 gals. Drill-				
	24-25	/								mud between 25'-48'.				

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Set 8" I.D. Sch. 40 steel surface casing to 25' below ground surface. Drilling Area Background (ppm): 0
12" ID HAS borehole to 25' BGS, annular space filled with bentonite at base. Soil backfill above.

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW305
 DATE: 10/15/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-6	25-26					Tan-Lt. brn	Fine to coarse sand and	SM/GM	Screened mud rotary cuttings.	0	0	0	0
	26-27						fine to coarse gravel, moist.	SM/GM					
	27-28									Lost +/- 200 gals. Drill-			
	28-29									mud between 25'-48'.			
	29-30												
S-7	30-31					Tan-Lt. brn	Silty, medium-coarse sand,	SM/GM	Screened mud rotary cuttings.	0	0	0	0
	31-32						little- med. to coarse gravel.	SM/GM					
	32-33						moist	ML		Geophysical log.			
	33-34							ML		Geophysical log.			
	34-35							ML		Geophysical log.			
S-8	35-36					Tan-Lt. brn	Silty, medium-coarse sand,	SM/GM	Screened mud rotary cuttings.	0	0	0	0
	36-37						little- med. to coarse gravel.	SM/GM					
	37-38						moist						
	38-39												
	39-40												
S-9	40-41					Light brn	Silty, medium-coarse sand,	SM/GM	Screened mud rotary cuttings.	0	0	0	0
	41-42						little- med. to coarse gravel.	SM/GM					
	42-43						moist						
	43-44												
	44-45												
S-10	45-46					Tan	Fine-coarse sand,	SW	Screened mud rotary cuttings.	0	0	0	0
	46-47						little- med. to coarse gravel.	SW					
	47-48						moist						
S-11*	48-49	10-22				Dense Tan to	Silty, medium-coarse sand, wet.	sm sc	Split spoon sample	0	0	0	0
	49-50	21-20					Org brn	trace f.-c. gravel, clay laminae		sm sc	10:40		

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW305
 DATE: 11/15/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-12	50-51	/				Light brn	Sandy (very fine to fine) silt.	ML	Screened mud rotary	0	0	0	0	
	51-52	/					Silt (Geophysical log)	ML	cuttings and geo-					
	52-53	/					Silt (Geophysical log)	ML						
	53-54	/					Silt (Geophysical log)	ML						
	54-55	/					Silt (Geophysical log)	ML						
S-13	55-56	/				Tan-Lt. brn	Fine to coarse sand and	SP	Screened mud rotary	0	0	0	0	
	56-57	/					fine to coarse gravel, moist.	SP	cuttings.					
	57-58	/												
S-14*	58-59	16-21			Dense	Gray-white	Micaceous, medium to coarse	SP	Split spoon sample.	0	0	0	0	
	59-60	23-24					Gray-white	sand, wet.	SP	11:10				
	60-61	/												
	61-62	/												
	62-63	/												
S-15	65-66	/				Tan - brn	Micaceous, fine to coarse sand,	SP	Screened mud rotary	0	0	0	0	
	66-67	/					little silt, wet.	SP	cuttings.					
	67-68	/												
	68-69	/												
	69-70	/												
S-16	70-71	/				Tan - brn	Micaceous, fine to coarse sand	SM	Screened mud rotary	0	0	0	0	
	71-72	/					with silt laminae, wet.	SM	cuttings.					
	72-73	/												
	73-74	/												
	74-75	/												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW305
 DATE: 11/15/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-17	75-76	/		[Pattern]		Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0
	76-77	/					sand with silt laminae, trace to	SM	cuttings.				
	77-78	/					little lignite						
	78-79	/											
	79-80	/											
S-18	80-81	/		[Pattern]		Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0
	81-82	/					sand with silt laminae, trace to	SM	cuttings.				
	82-83	/					little lignite						
	83-84	/											
	84-85	/											
S-19	85-86	/		[Pattern]		Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0
	86-87	/					sand with silt laminae, trace to	SM	cuttings.				
	87-88	/					little lignite						
	88-89	/											
	89-90	/											
S-20	90-91	/		[Pattern]		Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0
	91-92	/					sand with silt laminae, trace to	SM	cuttings.				
	92-93	/					little lignite						
	93-94	/											
	94-95	/											
	95-96	/											
	96-97	/											
	97-98	/											
	98-99	/											
	99-100	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW305
 DATE: 11/15/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-21	100-101	/				Tan - Org. brn	Silty, fine to medium sand	ML/SM	Screened mud rotary	0	0	0	0
	101-102	/					with silt laminae, trace to	ML/SM	cuttings.				
	102-103	/					little lignite						
	103-104	/											
	104-105	/											
	105-106	/											
	106-107	/					Sandy silt.	ML	Geophysical log.				
	107-108	/					Sandy silt.	ML					
	108-109	/											
	109-110	/											
S-22	110-111	/				Tan - Org. brn	Silty, micaceous, fine to coarse	ML/SM	Screened mud rotary	0	0	0	0
	111-112	/					sand with silt laminae.	ML/SM	cuttings.				
	112-113	/					Silt and sandy silt.	ML/SM	Geophysical log.				
	113-114	/											
	114-115	/											
	115-116	/											
	116-117	/											
	117-118	/											
	118-119	/											
	119-120	/											
S-23	120-121	/				Tan - Org. brn	Silty, micaceous, medium to coars	SM	Screened mud rotary	0	0	0	0
	121-122	/					sand with silt laminae, trace to	SM	cuttings.				
	122-123	/					little lignite						
	123-124	/											
	124-125	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/15/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	125-126	/											
	126-127	/											
	127-128	/											
	128-129	/											
	129-130	/											
S-24	130-131	/				Tan - Org. brn	Silty, micaceous, medium to coarse	SM	Screened mud rotary	0	0	0	0
	131-132	/					sand with silt laminae, trace to little lignite	SM	cuttings.				
	132-133	/											
	133-134	/											
	134-135	/											
	135-136	/											
	136-137	/											
	137-138	/											
S-25*	138-139	25-28			Very Dense	Tan - Red brn	Silty, micaceous, medium to coarse	SM	Split spoon sample.	0	0	0	0
	139-140	31-33					sand w/ silt laminae, trace f. gravel.	SM	13:15				
	140-141	/											
	141-142	/											
	142-143	/											
	143-144	/											
	144-145	/											
	145-146	/											
	146-147	/					Sandy silt.		Geophysical log.				
	147-148	/											
S-26*	148-149	10-12				Tan - Gray	Sandy (fine), clay.	CL	Split spoon sample.	0	0	0	0
	149-150	15-20				Tan - Gray		CL	13:35				

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW305
 DATE: 11/15/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	150-151	/				Gray	Sandy, clay	CL	Geophysical log and				
	151-152	/						CL	mud rotary return.				
	152-153	/						CL					
	153-154	/						CL					
	154-155	/											
	155-156	/											
	156-157	/											
	157-158	/											
	158-159	/											
	159-160	/											
S-27	160-161	/				Tan - Gray	Silty, micaceous, fine to med. sand with silt laminae, tr.lignite.	SM	Screened mud rotary	0	0	0	0
	161-162	/						SM	cuttings.				
	162-163	/											
	163-164	/											
	164-165	/						ML	Silt (geophysical log)				
	165-166	/											
	166-167	/											
	167-168	/											
	168-169	/						ML	Silt (geophysical log)				
	169-170	/						ML	Silt (geophysical log)				
S-28	170-171	/				Gray	Silty, micaceous, sandy silt and silty, very fine to fine sand.	ML/SM	Screened mud rotary	0	0	0	0
	171-172	/						ML/SM	cuttings.				
	172-173	/							11/15/2011 Stopped				
	173-174	/							@ 173'.				
	174-175	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/16/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	175-176	/							11/16/2011 started				
	176-177	/							drilling from 173'.				
	177-178	/											
	178-179	/											
	179-180	/											
S-29	180-181	/				Gray	Silty, micaceous, sandy silt and	ML/SM	Screened mud rotary	0	0	0	0
	181-182	/					silty, very fine to fine sand.	ML/SM	cuttings.				
	182-183	/											
	183-184	/											
	184-185	/											
	185-186	/											
	186-187	/											
	187-188	/											
	188-189	/											
	189-190	/											
S-30	190-191	/				Gray	Silty, micaceous, sandy silt and	ML/SM	Screened mud rotary	0	0	0	0
	191-192	/					silty, very fine to fine sand.	ML/SM	cuttings.				
	192-193	/											
	193-194	/											
	194-195	/											
	195-196	/											
	196-197	/											
	197-198	/											
	198-199	/											
	199-200	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/16/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-31	200-201	/				Tan - Gray	Silty, micaceous, fine to med.	SM	Screened mud rotary	0	0	0	0
	201-202	/					sand with silt laminae, tr. lignite.	SM	cuttings.				
	202-203	/											
	203-204	/											
	204-205	/											
	205-206	/											
	206-207	/											
	207-208	/											
	208-209	/											
	209-210	/											
S-32	210-211	/				Tan - Gray	Silty, micaceous, fine to med.	SM	Screened mud rotary	0	0	0	0
	211-212	/					sand with silt laminae, tr. lignite.	SM	cuttings.				
	212-213	/											
	213-214	/											
	214-215	/											
	215-216	/											
	216-217	/					Silt (geophysical log)	ML					
S-33	217-218	/				Dark brn	Coarse sand and fine gravel,	SM GM	Screened mud rotary	0	0	0	0
	218-219	/				Dark brn	little to some silt, oxidized, wet.	SM GM	cuttings.				
	219-220	/											
	220-221	/											
	221-222	/											
	222-223	/											
	223-224	/											
	224-225	/					Silt (geophysical log)						

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/16/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-34	225-226	/				Tan - Gray	Silty, very fine to fine sand	SM	Screened mud rotary	0	0	0	0	
	226-227	/							SM	cuttings.				
	227-228	/						Silt (geophysical log)	ML					
	228-229	/						Silt (geophysical log)	ML					
	229-230	/												
	230-231	/												
	231-232	/												
	232-233	/												
	233-234	/												
	234-235	/												
	235-236	/												
	236-237	/												
	237-238	/												
	238-239	/												
	239-240	/												
S-35	240-241	/				Dark brn to	Coarse sand and fine gravel,	SM GM	Screened mud rotary	0	0	0	0	
	241-242	/				Org brn	little to some silt, oxidized, wet.	SM GM	cuttings.					
	242-243	/												
	243-244	/												
	244-245	/												
	245-246	/												
	246-247	/												
	247-248	/												
	248-249	/												
	249-250	/												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/16/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-36	250-251	/				Tan - Gray	Silty, micaceous very fine to	SM	Screened mud rotary	0	0	0	0
	251-252	/				Tan - Gray	fine sand, trace silt laminae.	SM	cuttings.				
	252-253	/											
	253-254	/											
	254-255	/					Silt (geophysical log)	ML					
	255-256	/					Sandy (fine) clay.	CL/SC	Geophysical log.				
	256-257	/						CL					
	257-258	/						CL					
	258-259	/						CL					
	259-260	/						CL					
	260-261	/											
	261-262	/											
S-37	262-263	/				Tan - Gray	Silty, micaceous fine sand and	Sm MI	Screened mud rotary	0	0	0	0
	263-264	/				Tan - Gray	sandy (fine), silt.	Sm MI	cuttings.				
	264-265	/											
	265-266	/											
	266-267	/											
	267-268	/											
	268-269	/											
	269-270	/											
	270-271	/											
	271-272	/											
	272-273	/											
S-38	273-274	18-23				Tan-brn	Silty fine to medium quartzose	SM	Mud rotary cuttings	0	0	0	0
	274-275	24-27				Tan-brn	sand.	SM					

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Installed 2" ID Sch 40 PVC Well Screen from 286' to 296'. Drilling Area Background (ppm): 0
#1 Silica sandpack from 271' to 300'.
4' Bentonite pellet seal 244' to 268'. Cetco bentonite/portland cement annular seal to 10' BGS.

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW-305



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation BORING No.: BPS1-TT-MW305
 PROJECT NUMBER: 112G02230 DATE: 11/16/2011
 DRILLING COMPANY: Delta Drilling GEOLOGIST: J. Ferguson
 DRILLING RIG: Mud Rotary / Hollow Stem Auger DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-39	275-276			[Dotted pattern]		Tan - Gray	Silty, micaceous very fine to	SM	Screened mud rotary	0	0	0	0
	276-277					Tan - Gray	fine sand, trace silt laminae.	SM	cuttings.				
	277-278												
	278-279												
	279-280												
	280-281												
	281-282												
	282-283												
	283-284												
	284-285												
	285-286			[Diagonal lines]									
	286-287						Silt (geophysical log)	ML					
	287-288					Silt (geophysical log)	ML						
S-40*	288-289	18-24		[Dotted pattern]		Tan-Gray	Silty, very fine to fine sand.	SP SM	Split spoon sample.	0	0	0	0
	289-290	26-30								12:45			
	290-291												
	291-292												
	292-293												
	293-294												
	294-295												
	295-296												
	296-297												
	297-298												
S-41*	298-299	24-25		[Dotted pattern]		Tan- Org Brn.	Silty, very fine to fine sand.	SP SM	Split spoon sample.	0	0	0	0
	299-300	30-27						13:15	SP SM	Bottom of boring=300'.			

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: Set 2" ID well screen (10'-0.010 slot) from 286' to 296' below ground surface.

Drilling Area Background (ppm): 0

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW305



BORING LOG

PROJECT NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 11260 2230
 DRILLING COMPANY: Delta
 DRILLING RIG: _____

BORING No.: MW-306-0
 DATE: 11-28-11
 GEOLOGIST: Vince Shickora
 DRILLER: Bill Murphy

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	1	/												
	2	/												
	3	/												
	4	/												
	5	/												
	6	/												
	7	/												
	8	/												
	9	/												
	10	/												
	11	/												
	12	/												
	13	/												
	14	/												
	15	/												
	16	/												
	17	/												
	18	/												
	19	/												
	20	/												
	21	/												
	22	/												
	23	/												
	24	/												
	25	/												

11/28/11
 ↓
 0925

Completed on 11-23-11

8" casing

Br F-C Sand and F Gravel - little silt

0000

* When rock coring, enter rock brokenness.
 ** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.
 Drilling Area Background (ppm):
 Remarks: 8" steel drive casing installed to ~ 23' BGS
7.5" Mod. rotary drilling 0' to 300' BGS
2" x 2' stainless split spoon samples at selected depths
 Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NW ERP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadriill

BORING No.: MW-306J
 DATE: 11-28-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

Times

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	26	/				Brn	F-C Sand - with F-M Gravel - little silt			0	0	0	0
	27	/											
	28	/											
	29	/											
	30	/								0	0	0	0
	31	/											
	32	/				Brn	F-C Sand with F-M Gravel little silt - trace mica						
	33	/											
	34	/											
	35	/								0	0	0	0
	36	/											
	37	/				org							
0930	38	/				Brn							
	39	/											
	40	/					Same as above			0	0	0	0
	41	/											
	42	/					(more silt)						
0932	43	/				org Brn	(trace clay)						
	44	/											
	45	/				org Brn	Silt - little clay trace F-C sand and gravel			0	0	0	0
	46	/											
	47	/											
0946	48	/											
S-1	49	12 / 17	19"			org Brn	F-M Sand - little silt - trace clay and C Sand			0	0	0	0
0957	50	21 / 25	24"							0	0	0	0

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bathpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Pottodrill

BORING No.: MW-306J
 DATE: 11-28-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

Time
1010

1016

1028
1044
↓

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION		U S C S *	Remarks	PID/FID Reading (ppm)										
					Soil Density/ Consistency or Rock Hardness	Color			Material Classification	Sample	Sampler BZ	Borehole**	Driller BZ**						
	51	/	/																
	52	/	/																
	53	/	/																
	54	/	/																
	55	/	/			Brn		Some as above											
	56	/	/																
	57	/	/																
	58	/	/																
	59	23/31	19"			Brn		F-M Sand - Trace silt											
	60	35/34	24"			Wht T21		Silt											
	61	/	/																
	62	/	/																
	63	/	/					(Trace C sand)											
	64	/	/																
	65	/	/			Brn T21		Some as above											
	66	/	/																
	67	/	/																
	68	/	/					(Trace C sand) (F Gravel)											
	69	/	/			Gry Brn T21		Some as above											
	70	/	/																
	71	/	/					(Trace clay)											
	72	/	/																
	73	/	/																
	74	/	/			Gry Brn T21		Some as above											
	75	/	/																

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NwIRP Bathpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Pertadrill

BORING No.: MW-306D
 DATE: 11-28-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

Time

1057
1102

1113
1119

1123
1215

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION		U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color			Material Classification	Sample	Sampler BZ	Borehole**	Driller BZ**
	76	/			Gry Brn T21	F-M Sand - Trace Silt, R Sand and F Gravel			0	0	0	0
	77	/										
	78	/										
	79	/										
	80	/			Gry Brn T21	Same as above			0	0	0	0
	81	/										
	82	/				(micaceous)						
	83	/										
	84	/										
	85	/			Gry Brn T21	Same as above			0	0	0	0
	86	/										
	87	/										
	88	/				(micaceous)						
	89	/										
	90	/			Gry Brn T21	Same as above			0	0	0	0
	91	/										
	92	/										
	93	/				(micaceous)						
	94	/										
	95	/			Gry Brn T21	Same as above			0	0	0	0
	96	/										
	97	/										
	98	/										
	99	/										
	100	/			Gry Brn T21	Same as above			0	0	0	0

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadell

BORING No.: MW-3060
 DATE: 11-28-11
 GEOLOGIST: V. Shickusa
 DRILLER: B. Murphy

Time

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	101	/				Brn Gry Ten	F-M Sand - Trace silt C sand and F gravel			0	0	0	0
	102	/											
	103	/					(micaceous)						
	104	/				Gry Brn Ten	Same as above			0	0	0	0
	105	/											
	106	/											
	107	/					(more silt)						
	108	/											
	109	/				Gry Brn Ten	Same as above			0	0	0	0
	110	/											
	111	/											
	112	/											
	113	/					(little clay)						
	114	/				Gry Brn Ten	Same as above			0	0	0	0
	115	/											
	116	/											
	117	/					(little clay)						
1228 1242	118	/											
	119	/				Gry Brn Ten	F sand - little silt Trace clay and C sand			0	0	0	0
	120	/											
	121	/											
	122	/											
	123	/					(micaceous)						
	124	/				Gry Brn Ten	Same as above			0	0	0	0
	125	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area
 Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Backpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadrill

BORING No.: MW-306(A)
 DATE: 11-28-11
 GEOLOGIST: V. Slickert
 DRILLER: B. Murphy

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION		U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color			Material Classification	Sample	Sampler BZ	Borehole**	Driller BZ**
	126	/				Gry Bn Tan	F-Sand - little silt Trace C Sand and clay			0	0	0	0
	127	/					(micaceous)						
	128	/											
	129	/				Gry Bn Tan	F-M Sand - little C Sand and silt Trace clay			0	0	0	0
	130	/											
	131	/											
	132	/					(some weathered rock frags)	rust stains					
	133	/											
	134	/				Gry Tan Bn	F Sand - little silt Trace C Sand and clay			0	0	0	0
	135	/					(micaceous)						
	136	/											
	137	/											
1254 1304	5-3 139	22 29	20"			Gry Bn Tan	F Sand - little silt Trace C Sand and clay			0	0	0	0
1312	↓ 140	33 36	24"							0	0	0	0
	141	/											
	142	/					(micaceous)						
	143	/											
	144	/				Gry Bn Tan	Same as above			0	0	0	0
	145	/											
	146	/											
	147	/											
	148	/					(Trace weathered rock frags)	rust stains					
	149	/				Gry Bn Tan	Same as above			0	0	0	0
	150	/											

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: (see page 1)

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 11260 22 30
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadill

BORING No.: MW-306J
 DATE: 11-28-11
 GEOLOGIST: V. Shickel
 DRILLER: B. Murphy

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	151	/			Gry Brn Tan		F-sand - little silt Trace C sand and clay			0	0	0	0
	152	/					(little clay)			0	0	0	0
	153	/					↓						
	154	/			Gry Brn Tan		Same as above			0	0	0	0
	155	/											
	156	/											
	157	/											
1348	158	/			Red								
1401	S-4 159	13/17			Gry Brn Tan		Silt - some clay and little F-sand						
1406	↓ 160	17/19								0	0	0	0
1416	161	/											
	162	/											
	163	/					(Trace C Sand)						
	164	/			Gry Brn Tan		Same as above			0	0	0	0
	165	/											
	166	/											
	167	/											
	168	/					(Trace weathered rock frags)						
	169	/			Gry Brn Tan		Same as above			0	0	0	0
	170	/											
	171	/											
	172	/											
1424	173	/					(Trace weathered rock frags)						
1435	174	/			Gry Brn Tan		Same as above			0	0	0	0
	175	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadrill

BORING No.: MW-306J
 DATE: 11-28-11 / 11-29-11
 GEOLOGIST: V. Shuker
 DRILLER: B. Murphy

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	176	/			Gry Brn Tan		Silt-Some clay and little F Sand			0	0	0	0
	177	/					Trace weathered rock frags						
	178	/											
	179	/				Red							
	180	/				Gry Tan	Same as above			0	0	0	0
	181	/											
	182	/											
	183	/											
	184	/				Gry Brn Tan							
	185	/					Same as above			0	0	0	0
	186	/											
	187	/											
	188	/											
	189	/				Gry Brn Tan							
	190	/					Same as above			0	0	0	0
	191	/											
	192	/					(more F Sand)						
	193	/					(micaceous)						
	194	/				Gry Brn Tan							
	195	/					Same as above			0	0	0	0
	196	/											
	197	/					(more F Sand)						
	198	/					(micaceous)						
	199	/				Gry Brn Tan							
	200	/					Same as above			0	0	0	0

↑
 11/28/11
 1454
 0914
 11/29/11
 ↓

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bath page
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadrill

BORING No.: MW-306-D
 DATE: 11-29-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

Time

0931

0949
1008

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)									
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**						
	201	/	/																
	202	/	/																
	203	/	/																
	204	/	/																
	205	/	/																
	206	/	/																
	207	/	/																
	208	/	/																
	209	/	/																
	210	/	/																
	211	/	/																
	212	/	/																
	213	/	/																
	214	/	/																
	215	/	/																
	216	/	/																
	217	/	/																
	218	/	/																
	219	/	/																
	220	/	/																
	221	/	/																
	222	/	/																
	223	/	/																
	224	/	/																
	225	/	/																

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (See page 1)

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bath page
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadrill

BORING No.: MW-3060
 DATE: 11-29-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

Time

1018

1037
1053

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	226	/				Gry Tan	Silt, little clay and fine sand			0	0	0	0
	227	/				Bm	Trace weathered rock frags						
	228	/											
	229	/				Gry Tan Bm	Same as above			0	0	0	0
	230	/											
	231	/											
	232	/											
	233	/											
	234	/				Gry Bm Tan	Same as above			0	0	0	0
	235	/											
	236	/											
	237	/					(micaceous)						
	238	/											
	239	/				Gry Bm Tan	Same as above			0	0	0	0
	240	/											
	241	/											
	242	/											
	243	/											
	244	/				Gry Bm Tan	Same as above			0	0	0	0
	245	/											
	246	/											
	247	/											
	248	/					(less clay)						
	249	/				Gry Bm Tan	Same as above			0	0	0	0
	250	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bathpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Porta-drill

BORING No.: MW-3060
 DATE: 11-29-11
 GEOLOGIST: V. Shickel
 DRILLER: B. Murphy

Time

1059

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	251	/			Gry Brn Tan		Silt - little VP sand and clay - Trace weathered rock frags			0	0	0	0
	252	/					(more F-Sand)						
	253	/											
	254	/			Gry Brn		Same as above			0	0	0	0
	255	/											
	256	/					(more F-Sand)						
	257	/					(micaceous)						
	258	/											
	259	/			Gry Brn Tan		Same as above			0	0	0	0
	260	/											
	261	/					(less clay)						
	262	/											
	263	/											
	264	/			Gry Tan Brn		Same as above			0	0	0	0
	265	/											
	266	/											
	267	/					(less clay)						
	268	/			Gry Brn Tan		Same as above						
	269	/											
	270	/											
	271	/											
	272	/					(micaceous)						
	273	/					(more F-Sand)						
	274	/			Gry Brn Tan		Same as above						
	275	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area Background (ppm): 3

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Beta Page
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadrill

BORING No.: MW-3060
 DATE: 11-29-11
 GEOLOGIST: V. Shickora
 DRILLER: B. Murphy

1115
1125
1132
1223

1231
1243

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION		U S C S *	Remarks	PID/FID Reading (ppm)									
					Soil Density/ Consistency or Rock Hardness	Color			Material Classification	Sample	Sampler BZ	Borehole**	Driller BZ**					
	276																	
	277																	
	278																	
	279	22/26	14"															
	280	28/27	24"															
	281																	
	282																	
	283																	
	284																	
	285																	
	286																	
	287																	
	288																	
	289																	
	290																	
	291																	
	292																	
	293																	
	294	29/36	12"															
	295	37/43	24"															
	296																	
	297																	
	298																	
	299																	
	300																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)
Hole completed to n. 303' BGS

Drilling Area Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



BORING LOG

PROJECT NAME: NWIRP Bathpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Portadill

BORING No.: MW-306J
 DATE: 11-29-11
 GEOLOGIST: V. Shickler
 DRILLER: B. Murphy

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)									
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**						
	301	/					Gr F Sand - Some silt												
	302	/					Tr Trace clay and												
	303	/					Brn Quartz/Rock Frags												
		/			EOB														

1306

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: (see page 1)

Drilling Area
 Background (ppm): 0

Converted to Well: Yes No Well I.D. #: _____



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 10/28/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	0-1	/				Dark Brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	1-2	/				Dark Brn	tr. little, med. Gravel, moist.	SM					
	2-3	/											
	3-4	/											
	4-5	/											
S-2	5-6	/				Tan-Lt. brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	6-7	/				Tan-Lt. brn	tr. little, med. Quartzose gravel	SM					
	7-8	/						moist.					
	8-9	/											
	9-10	/											
S-3	10-11	/				Tan-Lt. brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	11-12	/				Tan-Lt. brn	tr. little, med. Quartzose gravel	SM					
	12-13	/						moist.					
	13-14	/											
	14-15	/											
S-4	15-16	/				Tan-Lt. brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	16-17	/				Tan-Lt. brn	tr. little, med. Quartzose gravel	SM					
	17-18	/						moist.					
	18-19	/											
	19-20	/											
S-5	20-21	/				Tan-Lt. brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	21-22	/				Tan-Lt. brn	tr. little, med. Quartzose gravel	SM					
	22-23	/						moist.					
	23-24	/											
	24-25	/											

Remarks: Set 8" I.D. Sch. 40 steel surface casing to 25' below ground surface. (Failing F-10) Drilling Area Background (ppm): 0
12" ID HAS borehole to 25' BGS, annular space filled with bentonite at base. Soil backfill above. (Strieber/Pratt)
Drilled borehole to depth on 10/28, installed casing 10/31.

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-6	25-26	/				Tan-brn	Silty, fine to coarse sand and	SM/GM	Screened mud rotary	0	0	0	0	
	26-27	/					fine to coarse gravel moist.	SM/GM	cuttings. 08:37					
	27-28	/												
	28-29	/												
	29-30	/												
	30-31	/												
	31-32	/												
	32-33	/						Silt	ML	Geophysical log.				
	33-34	/							ML					
	34-35	/							ML					
S-7	35-36	/				Tan-brn	Silty, sandy (fine) fine to med	SM/GM	Screened mud rotary	0	0	0	0	
	36-37	/				Tan-brn	quartzose gravel, and gravelly	SM/GM	cuttings.					
	37-38	/				Tan-brn	fine to coarse sand.	SM/GM						
	38-39	/												
	39-40	/												
	40-41	/												
	41-42	/												
	42-43	/												
	43-44	/												
	44-45	/												
45-46	/							Mud takes in upper 25'-50'						
46-47	/							of formation (+/-250 gal.)						
47-48	/													
S-8*	48-49	19-23			Dense	Red brn	Silty, med-coarse sand, wet.	SM	Split spoon sample	0	0	0	0	
	49-50	26-28				Red brn	tr. to little fine to med gravel.	SM	9:00					

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	50-51						Silt	ML	Geophysical log.					
	51-52													
	52-53													
	53-54													
	54-55													
	55-56										0	0	0	0
	56-57													
	57-58													
S-9*	58-59	22-23			Dense	Gray-Red brn	Silty, med to coarse sand,	SM	Split spoon sample.		0	0	0	0
	59-60	25-30				Gray-Red brn	tr. to little fine to med gravel,	SM						
	60-61					Gray-Red brn	wet.	SM						
S-11	61-62					Tan-Red brn	Silty, fine to coarse sand, tr.	SM SP	Screened mud rotary					
	62-63					Tan-Red brn	silt laminae, tr. fine gravel.	SM SP	cuttings.					
	63-64													
	64-65													
	65-66										0	0	0	0
	66-67					Tan-Red brn		SM SP						
	67-68													
	68-69													
	69-70													
	70-71										0	0	0	0
	71-72					Tan-Red brn		SM SP						
	72-73													
	73-74													
	74-75													

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	75-76	/				Tan- Red brn	Silty, fine to coarse sand, tr.	SM SP	Screened mud rotary				
	76-77	/				Tan- Red brn	silt laminae, tr. fine gravel	SM SP	cuttings.				
	77-78	/					little lignite						
S-12	78-79	/				Red brn	Silty, fine to coarse sand, tr.	SM	Screened mud rotary	0	0	0	0
	79-80	/				Red brn	gray silt laminae, tr. fine gravel.	SM	cuttings. 10:00				
	80-81	/											
	81-82	/											
	82-83	/											
	83-84	/											
	84-85	/											
	85-86	/											
	86-87	/											
	87-88	/											
S-13	88-89	/			Red brn	Silty, fine to coarse sand, tr.	SM	Screened mud rotary	0	0	0	0	
	89-90	/			Red brn	gray silt laminae, tr. fine gravel.	SM	cuttings. 10:20					
	90-91	/											
	91-92	/											
	92-93	/											
	93-94	/				Silt and clay		ML CL	Geophysical log.				
	94-95	/				Silt and clay		ML CL					
	95-96	/				Silt and clay		ML CL					
	96-97	/			Red brn			SM	Drillers mix additional mud				
	97-98	/							loss +/- 200 gals.				
S-14	98-99	/			Gray-red brn	Silty, fine to coarse sand, tr.		SM	Screened mud rotary	0	0	0	0
	99-100	/			Gray-red brn	gray silt laminae, tr. fine gravel.		SM	cuttings. 10:25				

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	100-101	/				Gray-red brn	Silty, fine to coarse sand, tr.	SM	Screened mud rotary				
	101-102	/				Gray-red brn	gray silt laminae, tr. fine gravel.	SM	cuttings.				
	102-103	/											
	103-104	/											
	104-105	/											
	105-106	/											
	106-107	/											
	107-108	/											
S-15	108-109	/				Gray-red brn	Silty, fine to coarse sand, tr.	SM	Screened mud rotary	0	0	0	0
	109-110	/				Gray-red brn	gray silt laminae, tr. fine gravel.	SM	cuttings.				
	110-111	/											
	111-112	/											
	112-113	/											
	113-114	/											
	114-115	/											
	115-116	/											
	116-117	/											
	117-118	/											
S-16*	118-119	18-24			Gray-red brn	Micaceous, clayey, fine to med	SC	Screened mud rotary	0	0	0	0	
	119-120	28-30			Gray-red brn	sand and sandy (fine) clay.	SC	cuttings.					
	120-121	/											
	121-122	/											
	122-123	/											
	123-124	/											
	124-125	/											

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	125-126	/											
	126-127	/											
	127-128	/											
S-17*	128-129	26-30			Dense	Gray-red	Silty very fine to fine sand.	SM SP	Split spoon sample.	0	0	0	0
	129-130	34-39				Gray-red		SM SP	11:31				
	130-131	/											
	131-132	/											
	132-133	/											
	133-134	/											
	134-135	/											
	135-136	/											
	136-137	/											
	137-138	/											
	138-139	/											
	139-140	/											
	140-141	/											
	141-142	/											
	142-143	/											
	143-144	/											
	144-145	/											
	145-146	/											
	146-147	/											
	147-148	/					Silt and clay	ML CL	Geophysical log.				
	148-149	/					Silt and clay	ML CL					
	149-150	/					Silt and clay	ML CL					

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	150-151	/					Silt and clay	ML CL	Geophysical log.					
	151-152	/												
	152-153	/												
	153-154	/												
	154-155	/												
	155-156	/												
	156-157	/												
	157-158	/							ML CL	Geophysical log.				
S-18	158-159	/				Tan-red brn		Sandy (fine-med) clay and	SC CL	Screened mud rotary	0	0	0	0
	159-160	/				Tan-red brn		clayey, fine-med sand.	SC CL	cuttings. 13:26				
	160-161	/												
	161-162	/												
	162-163	/												
	163-164	/												
	164-165	/												
	165-166	/												
	166-167	/												
	167-168	/												
	168-169	/												
	169-170	/												
	170-171	/					Silt and clay	ML CL	Geophysical log.					
	171-172	/												
	172-173	/												
	173-174	/												
	174-175	/												

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	175-176	/		[Hatched Pattern]		Tan-red brn	Sandy (fine-med) clay and	SC CL	Screened mud rotary				
	176-177	/					Tan-red brn	clayey, fine-med. sand.	SC CL	cuttings. 13:26			
	177-178	/		[Hatched Pattern]			Sandy silt and clay	ML CL	Geophysical log.				
	178-179	/											
	179-180	/											
	180-181	/											
	181-182	/											
	182-183	/											
	183-184	/											
	184-185	/											
	185-186	/											
	186-187	/											
	187-188	/											
	188-189	/											
	189-190	/											
	190-191	/											
	191-192	/											
	192-193	/											
	193-194	/											
	194-195	/											
	195-196	/											
	196-197	/											
	197-198	/											
	198-199	/		[Hatched Pattern]			Sandy silt and clay	ML CL	Geophysical log.				
	199-200	/											

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/3-4/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	200-201	/					Sandy silt and clay	ML CL	Geophysical log.				
	201-202	/											
	202-203	/											
S-19	203-204	/				Tan	Silty fine-med sand.	SM	Screened mud rotary	0	0	0	0
	204-205	/				Tan	Interbedded sandy(fine) silt and	SM ML	cuttings. 14:45				
	205-206	/				Tan	silty fine sand.	SM ML	Geophysical log.				
	206-207	/											
	207-208	/											
S-20	208-209	/				Gray-org Brn	Interbedded sandy(fine) silt and	SM ML					
	209-210	/				Gray-org Brn	silty fine sand.	SM ML					
	210-211	/											
	211-212	/											
	212-213	/											
	213-214	/											
	214-215	/											
	215-216	/											
	216-217	/											
	217-218	/											
S-21*	218-219	/				Gray- Org Brn	Silty fine-med sand.	SM ML	Stopped @ 218' 11/03.				
	219-220	/				Gray- Org Brn		SM ML	Split spoon sample				
	220-221	/											
	221-222	/											
	222-223	/											
	223-224	/											
	224-225	/											

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
PROJECT NUMBER: 112G02230
DRILLING COMPANY: Delta Drilling
DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
DATE: 11/4/2011
GEOLOGIST: J. Ferguson
DRILLER: B. Murphy / K. Cronin

Table with columns: Sample No. and Type or RQD, Depth (Ft.) or Run No., Blows / 6" or RQD (%), Sample Recovery / Sample Length, Lithology Change (Depth/Ft.) or Screened Interval, Soil Density/Consistency or Rock Hardness, Color, Material Classification, U S C S *, Remarks, PID/FID Reading (ppm) (Sample, Sampler BZ, Borehole**, Driller BZ**)

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes [X] No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/4/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	250-251	/											
	251-252	/											
	252-253	/											
	253-254	/											
	254-255	/											
	255-256	/											
	256-257	/											
	257-258	/											
	258-259	/											
	259-260	/											
S-24	260-261	/			Tan-gray	Silty fine-med sand.	SM	Screened mud rotary	0	0	0	0	
	261-262	/			Tan-gray	Silty fine-med sand.	SM						
	262-263	/											
	263-264	/											
	264-265	/											
	265-266	/											
	266-267	/											
	267-268	/											
	268-269	/											
	269-270	/											
	270-271	/											
	271-272	/											
S-25	272-273	/			Tan-gray	Silty fine-med sand.	SM	Screened mud rotary	0	0	0	0	
	273-274	/			Tan-gray	Silty fine-med sand.	SM						
	274-275	/											

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/4/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	275-276	/												
	276-277	/												
	277-278	/												
	278-279	/												
	279-280	/												
S-26	280-281	/					Tan-gray	Silty fine-med sand.	SM	Screened mud rotary	0	0	0	0
	281-282	/					Tan-gray	Silty fine-med sand.	SM					
	282-283	/												
	283-284	/												
	284-285	/												
	285-286	/												
	286-287	/												
	287-288	/						Silt and clay	ML CL	Geophysical log.				
	288-289	/												
	289-290	/												
	290-291	/												
	291-292	/												
	292-293	/												
	293-294	/												
	294-295	/												
S-27	295-296	/					Tan-gray	Silty fine-med sand.	SM	Screened mud rotary	0	0	0	0
	296-297	/					Tan-gray	tr. little, med. Quartzose gravel	SM					
	297-298	/												
	298-299	/												
	299-300	/												

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
PROJECT NUMBER: 112G02230
DRILLING COMPANY: Delta Drilling
DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
DATE: 11/4/2011
GEOLOGIST: J. Ferguson
DRILLER: B. Murphy / K. Cronin

Table with columns: Sample No. and Type or RQD, Depth (Ft.) or Run No., Blows / 6" or RQD (%), Sample Recovery / Sample Length, Lithology Change (Depth/Ft.) or Screened Interval, MATERIAL DESCRIPTION (Soil Density/Consistency or Rock Hardness, Color, Material Classification), U S C S *, Remarks, PID/FID Reading (ppm) (Sample, Sampler BZ, Borehole**, Driller BZ**).

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/4-7/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	325-326	/											
	326-327	/											
	327-328	/											
	328-329	/											
	329-330	/											
	330-331	/											
	331-332	/											
	332-333	/							Stopped @ 333' 11/04.				
	333-334	/											
	334-335	/											
	335-336	/											
	336-337	/											
	337-338	/											
S-30*	338-339	18-20			Dense	Gray-Red brn	Silty, very fine-fine sand.	SM	Split spoon sample	0	0	0	0
	339-340	22-26											
	340-341	/											
	341-342	/											
	342-343	/											
	343-344	/											
	344-345	/											
	345-346	/											
	346-347	/											
	347-348	/											
	348-349	/											
	349-350	/											

Remarks: 11:15 - Delta onsite to run natural gammal log from GS to 350'. Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/7/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	350-351	/											
	351-352	/											
	352-353	/											
S-32*	353-354	18-24		.....	Dense	Gray-red brn	Very fine-med sand, tr. silt	SP	Split spoon sample	0	0	0	0
	354-355	28-32		.....								
	355-356	/											
	356-357	/											
	357-358	/											
	358-359	/											
	359-360	/											
	360-361	/											
	361-362	/											
	362-363	/											
	363-364	/											
	364-365	/											
	365-366	/											
	366-367	/											
	367-368	/											
	368-369	/											
	369-370	/											
	370-371	/											
	371-372	/											
	372-373	/											
S-33	373-374	/		.....		Gray-red brn	Very fine-med sand, tr. silt	SP	Screened mud rotary	0	0	0	0
	374-375	/		.....					cuttings.				

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/7/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	375-376	/											
	376-377	/											
	377-378	/											
	378-379	/											
	379-380	/											
	380-381	/											
	381-382	/											
	382-383	/											
S-34*	383-384	18-24			Very dense	Tan-gray	Silty fine-med sand, tr. silt	SM	Split spoon sample	0	0	0	0
	384-385	28-32				Tan-gray	laminae.	SM	13:15				
	385-386	/											
	386-387	/											
	387-388	/											
	388-389	/											
	389-390	/											
	390-391	/											
	391-392	/											
	392-393	/											
	393-394	/											
	394-395	/											
	395-396	/											
	396-397	/											
	397-398	/											
	398-399	/											
	399-400	/											

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/7/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	400-401	/											
	401-402	/											
	402-403	/											
	403-404	/											
	404-405	/											
	405-406	/											
	406-407	/											
	407-408	/											
	408-409	/											
	409-410	/											
	410-411	/											
	411-412	/											
	412-413	/											
S-35*	413-414	22-25			Very dense	Tan-gray	Silty fine-med sand, tr. silt	SM	Split spoon sample	0	0	0	0
	414-415	27-30				Tan-gray	laminae.	SM	14:35				
	415-416	/											
	416-417	/											
	417-418	/											
	418-419	/											
	419-420	/											
	420-421	/											
	421-422	/											
	422-423	/											
S-36	423-424	16-24				Tan-gray	Silty fine-med sand, tr. silt	SM	Mud rotary cuttings.				
	424-425	26-30				Tan-gray	laminae.	SM					

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / Hollow Stem Auger

BORING No.: BPS1-TT-MW307
 DATE: 11/7/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	425-426												
	426-427												
	427-428												
	428-429												
	429-430												
	430-431												
	431-432												
	432-433												
S-37*	433-434	20-24			Very dense	Tan-gray	Fine-med sand, tr. silt	SM	Split spoon sample	0	0	0	0
	434-435	29-30				Tan-gray	laminae.	SM	14:35				
							Bottom of boring = 435'						

Remarks: 16:00 Delta logs borehole from GS to 433'. Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW307D



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 12G02230
 DRILLING COMPANY: Delta
 DRILLING RIG: Fairing 110

BORING No.: BPSI-MW308\$
 DATE: 11-11-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)							
						Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**				
		0																
							Tan	F sand and silt tr. gravel		Post hole dig to	0	0	0	0				
							Blk	F sand and silt some gravel		moist 5' bgs					0	0	0	0
1125		5					Blk	F-M sand some silt and gravel		moist					0	0	0	0
							Blk	F-C sand some silt and gravel		moist					0	0	0	0
1135		10					Blk	F-C sand some silt and ^{sm-med} pebbles		moist					0	0	0	0
								tr. sm. lg gravel										
1140		15					Blk	F-M sand some silt, sm pebbles and gravel		moist					0	0	0	0
1144		20					DK	F-M sand some silt and ^{sm-med} pebbles		moist					0	0	0	0
								tr. sm. gravel										
		25																

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Cuttings logged, see MW30D For detailed boring log and gamma log
4 1/4 inch ID 2 3/8 inch OD augers
Plus tack welded in lead auger, knocked out at 20'
 Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: BPSI-MW308\$



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW308\$
 DATE: 11-11-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	25																	
						Bin	F-C sand some sm-med pebbles tr. silt and med. gravel		moist	0	0	0	0					
1149	30					Bin	M-C sand some sm-med pebbles tr. silt and med. gravel		moist	0	0	0	0					
1152	35					Bin	M-C sand some sm-med pebbles tr. silt and med. gravel		moist	0	0	0	0					
1156	40					Org Bin	F-M sand tr. silt and sm pebbles		moist	0	0	0	0					
1200	45					Org Bin	F-M sand tr. silt and sm pebbles		moist	0	0	0	0					
1205	50																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: See first page

Drilling Area
 Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: BPSI-MW308\$



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 12602230
 DRILLING COMPANY: Della
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW308 \$
 DATE: 11-11-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)									
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**						
	50																		
						org Bin	F-M sand tr. silt and sm pebbles		moist	0	0	0	0						
1208	55																		
						org Bin	FM sand tr. silt and C. sand		moist	0	0	0	0						
122	60																		
						org Bin	F-M sand tr. silt and C. sand		moist	0	0	0	0						
	64																		
1216	65			EOB 64' bgs															

* When rock coring, enter rock brokenness.
 ** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.
 Remarks: See first page Drilling Area Background (ppm): 0.0
 Converted to Well: Yes X No _____ Well I.D. #: BPSI-MW308 \$



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/24/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	0-1	/				Dark Brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	1-2	/					trace-little, med. Gravel,moist.	SM					
	2-3	/											
	3-4	/											
	4-5	/											
S-2	5-6	/				Dark Brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	6-7	/					trace-little, med. Gravel,moist.	SM					
	7-8	/											
	8-9	/											
	9-10	/											
S-3	10-11	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	11-12	/					little- med. to coarse gravel,	SM					
	12-13	/					moist.						
	13-14	/											
	14-15	/											
S-4	15-16	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	16-17	/					little- med. to coarse gravel,	SM					
	17-18	/					moist.						
	18-19	/											
	19-20	/											
S-5	20-21	/				brn	Silty, medium-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	21-22	/					little- med. to coarse gravel,	SM					
	22-23	/					moist.						
	23-24	/											
	24-25	/											

Remarks: Set 8" I.D. Sch. 40 steel surface casing to 25' below ground surface. Drilling Area Background (ppm): 0
12" ID HSA borehole to 25' BGS, annular space filled with bentonite at base. Soil backfill above.

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/25/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	25-26	/												
	26-27	/												
	27-28	/												
S-6	28-29	/			Tan-Lt. brn	Fine to coarse sand and	SP/G P	Screened mud rotary	0	0	0	0		
	29-30	/				fine to coarse gravel, moist.	SP/G P	cuttings.						
	30-31	/												
	31-32	/												
	32-33	/												
	33-34	/												
	34-35	/												
	35-36	/												
	36-37	/												
	37-38	/												
S-7	38-39	/			Tan-brn	Fine to coarse sand and	SP/G P	Screened mud rotary	0	0	0	0		
	39-40	/			Tan-brn	fine to coarse gravel, moist.	SP/G P	cuttings.						
	40-41	/				Sand and gravel is quartitic.								
	41-42	/												
	42-43	/												
S-8	43-44	/			Tan-brn	Fine to coarse sand and	SP/G P	Screened mud rotary	0	0	0	0		
	44-45	/				fine to coarse gravel, moist.	SP/G P	cuttings.						
	45-46	/												
	46-47	/												
	47-48	/												
	48-49	/												
	49-50	/												

Remarks: Lost >100 gallons mud between 43' to 48'. Drilling Area Background (ppm): 0

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/25/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-9	50-51	/				Tan-brn	Fine to coarse sand and	SP/GP	Screened mud rotary	0	0	0	0
	51-52	/					fine to coarse gravel, moist.	SP/GP	cuttings.				
	52-53	/					Sand and gravel is quartz.						
S-10*	53-54	18-23	1.2		Dense	Tan-brn	Fine to coarse sand, little	SP	Split barrel sampler	0	0	0	0
	54-55	30-34	2.0				fine to coarse quartzose gravel,	SP					
	55-56	/					wet.						
	56-57	/											
	57-58	/											
S-11	58-59	/				Tan-Gray	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0
	59-60	/					sand, wet.	SM	cuttings.				
	60-61	/											
	61-62	/											
	62-63	/											
S-12*	63-64	12-18	1.4			Tan-Gray	Silty, micaceous, fine to coarse	SM	Split spoon sample.	0	0	0	0
	64-65	28-35	2.0				sand, trace silt laminae, wet.	SM					
	65-66	/											
	66-67	/											
	67-68	/							Resumed drilling 10/26.				
S-13	68-69	/				Tan-Gray	Silty, fine to medium sand and	SM ML	Mud rotary cuttings and	0	0	0	0
	69-70	/					sandy (f-m) silt.	SM ML	geophysical log.				
	70-71	/					Silty, Sand		Geophysical log.				
	71-72	/											
	72-73	/											
	73-74	/											
	74-75	/											

Remarks: Stopped drilling @ 68' due to broken hydraulic line. Resumed @ 68' 10/26/11. Drilling Area Background (ppm): 0

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/26/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-14	75-76	/		[Pattern]		Tan-Gray	Silty, fine to medium sand,	SM	Screened mud rotary	0	0	0	0	
	76-77	/					trace silt laminae, wet.	SM	cuttings.					
	77-78	/												
S-15	78-79	/		[Pattern]		Tan-Gray	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	79-80	/					sand with silt laminae, trace to	SM	cuttings.					
	80-81	/												
	81-82	/												
	82-83	/												
S-16	83-84	/		[Pattern]		Tan - O. Brn.	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	84-85	/				Tan - O. Brn.	sand with interbedded silt	SM	cuttings.					
	85-86	/				Tan - O. Brn.	laminae (O. Brn).	SM						
	86-87	/						Sandy silt.	SM ML	Geophysical log.				
	87-88	/												
	88-89	/												
	89-90	/												
S-17	90-91	/		[Pattern]		Tan-Gray	Silty, fine to medium sand and	SM ML	Mud rotary cuttings					
	91-92	/					sandy (f-m) silt.	SM ML	and geophysical log.					
	92-93	/						Silty, sand.	SM	Geophysical log.				
	93-94	/									0	0	0	0
	94-95	/												
	95-96	/						Silty, sand.	SM	Geophysical log.				
	96-97	/												
	97-98	/												
	98-99	/												
	99-100	/												

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/26/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-18	100-101	/				Tan - Gray	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	101-102	/				Tan - Gray	fine sand with silt laminae.	SM ML					
	102-103	/											
	103-104	/											
	104-105	/											
S-19	105-106	/				Tan - Gray	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	106-107	/				Tan - Gray	fine sand with interbedded silt	SM ML					
	107-108	/				Tan - Gray	laminae						
	108-109	/											
	109-110	/											
S-20	110-111	/				Tan - Gray	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	111-112	/				Tan - Gray	fine sand with interbedded silt	SM ML					
	112-113	/				Tan - Gray	laminae						
	113-114	/											
	114-115	/											
S-21	115-116	/				Tan - Gray	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	116-117	/				Tan - Gray	fine sand with interbedded silt	SM ML					
	117-118	/				Tan - Gray	laminae						
	118-119	/											
	119-120	/											
S-22	120-121	/				Tan - Gray	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	121-122	/				Tan - Gray	fine sand with interbedded silt	SM ML					
	122-123	/					laminae						
S-23	123-124	/				Tan - brn	Silty, micaceous, very fine to	SM ML	Screened mud rotary cuttings.	0	0	0	0
	124-125	/				Tan - brn	f. sand, interbedded silt laminae.	SM ML					

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/26-27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-24	125-126	/				Tan - brn	Silty, micaceous, very fine to	ML/S M	Screened mud rotary	0	0	0	0
	126-127	/				Tan - brn	f. sand, interbedded silt laminae.	ML/S M	cuttings.				
	127-128	/											
	128-129	/											
	129-130	/											
	130-131	/											
	131-132	/											
	132-133	/											
S-25	133-134	/				Tan-Org. brn	Silty, fine to coarse sand , inter-	SM ML	Screened mud rotary	0	0	0	0
	134-135	/				Tan-Org. brn	bedded silt laminae, tr.to little	SM ML	cuttings.				
	135-136	/				Tan-Org. brn	black organic material (lignite).						
	136-137	/											
	137-138	/											
S-26	138-139	/				Tan-Org. brn	Silty, micaceous, medium to coars	SM	Split spoon sample.	0	0	0	0
	139-140	/				Tan-Org. brn	sand with silt laminae, tr. lignite.	SM					
	140-141	/											
	141-142	/											
	142-143	/											
S-27	143-144	25-30				Gray - White	Silty, micaceous, vf to fine	SM	Split spoon sample.	0	0	0	0
	144-145	50-35				Gray - White	sand with silt laminae, tr. lignite.	SM					
	145-146	/											
	146-147	/											
	147-148	/											
	148-149	/											
	149-150	/											

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	150-151	/												
	151-152	/												
	152-153	/												
S-28*	153-154	24-48	1.5		Dense	Tan - Gray	Silty, micaceous, very fine-med.	SM	Split spoon sample.	0	0	0	0	
	154-155	51-54	2.0			Tan - Gray	sand with silt laminae, tr. oxidized	SM						
	155-156	/					fine gravel.							
	156-157	/												
	157-158	/												
	158-159	/												
	159-160	/												
S-29	160-161	/				Tan - Gray	Silty, micaceous, fine to medium	SM	Screened mud rotary	0	0	0	0	
	161-162	/					sand with silt laminae, tr.oxidized	SM	cuttings.					
	162-163	/					fine gravel.							
	163-164	/												
	164-165	/												
S-30	165-166	/				Tan - Gray	Silty, micaceous, fine-medium san	SM	Screened mud rotary	0	0	0	0	
	166-167	/				Tan - Gray	w/silt laminae, tr. Oxidized f. gravel.	SM	cuttings.					
	167-168	/					Silt and clay	ML CL	Geophysical log.					
	168-169	/												
	169-170	/												
S-31	170-171	/				Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0	
	171-172	/				Gray	silty, very fine to fine sand.	ML/S M	cuttings.					
	172-173	/					Silt and clay		Geophysical log.					
	173-174	/												
	174-175	/												

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	175-176	/					Silt and clay		Geophysical log.				
	176-177	/											
	177-178	/											
	178-179	/											
	179-180	/											
S-32	180-181	/				Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0
	181-182	/				Gray	silty, very fine to fine sand.	ML/S M	cuttings.				
	182-183	/											
	183-184	/											
	184-185	/											
	185-186	/											
	186-187	/											
	187-188	/											
	188-189	/											
	189-190	/											
S-33	190-191	/				Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0
	191-192	/				Gray	silty, very fine to fine sand.	ML/S M	cuttings.				
	192-193	/											
	193-194	/											
	194-195	/											
	195-196	/											
	196-197	/											
	197-198	/											
	198-199	/					Silt and clay		Geophysical log.				
	199-200	/					Silt and clay		Geophysical log.				

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
	200-201	/												
	201-202	/												
	202-203	/												
S-34	203-204	/				Tan - Gray	Silty, very-fine to fine sand,	SM ML	Screened mud rotary	0	0	0	0	
	204-205	/				Tan - Gray	trace black silt laminae.	SM ML	cuttings.					
	205-206	/												
	206-207	/												
	207-208	/												
	208-209	/												
	209-210	/												
	210-211	/												
	211-212	/												
	212-213	/												
S-35	213-214	/				Tan - Gray	Silty, very-fine to fine sand,	SM ML	Screened mud rotary	0	0	0	0	
	214-215	/				Tan - Gray	trace black silt laminae.	SM ML	cuttings.					
	215-216	/												
	216-217	/												
	217-218	/												
	218-219	/												
	219-220	/												
	220-221	/												
	221-222	/												
	222-223	/												
S-36	223-224	/				Tan - Gray	Silty, very-fine to fine sand,	SM ML	Screened mud rotary	0	0	0	0	
	224-225	/					trace black silt laminae.	SM ML	cuttings.					

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-37	225-226	/				Tan - Gray	Silty, very fine to fine sand	SM	Screened mud rotary	0	0	0	0
	226-227	/				Tan - Gray	trace to little silt laminae.	SM	cuttings.				
	227-228	/											
	228-229	/											
	229-230	/											
	230-231	/					Silt and clay		Geophysical log.				
	231-232	/					Silt and clay		Geophysical log.				
	232-233	/											
	233-234	/				Tan - Gray	Silty, very fine to medium sand	SM	Screened mud rotary	0	0	0	0
	234-235	/				Tan - Gray	trace fine to medium gravel.	SM	cuttings.				
	235-236	/											
	236-237	/											
	237-238	/											
	238-239	/											
	239-240	/											
S-38	240-241	/				Dark brn to	Clayey coarse sand, tr. to little	SC GC	Screened mud rotary	0	0	0	0
	241-242	/				org brn	clayey fine gravel.	SM GM	cuttings.				
	242-243	/											
	243-244	/											
	244-245	/											
	245-246	/											
	246-247	/											
	247-248	/											
	248-249	/											
	249-250	/											

Remarks: _____ Drilling Area Background (ppm):

Converted to Well: Yes No _____ Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-39	250-251	/				Tan - Gray	Silty, micaceous very fine to	SM	Screened mud rotary	0	0	0	0
	251-252	/				Tan - Gray	fine sand, trace silt laminae.	SM	cuttings.				
	252-253	/											
	253-254	/											
	254-255	/											
	255-256	/											
	256-257	/											
	257-258	/											
S-40*	258-259	25-35	1.5		V. Dense	Tan - Gray	Silty, micaceous, vf to fine	SM ML	Split spoon sample.	0	0	0	0
	259-260	52-35	2.0			Tan - Gray	sand, trace silt laminae, wet.	SM ML					
	260-261	/											
	261-262	/					Clay and silt.		Geophysical log.				
	262-263	/							Geophysical log.				
	263-264	/							Geophysical log.				
	264-265	/							Geophysical log.				
	265-266	/											
	266-267	/											
	267-268	/											
	268-269	/											
	269-270	/											
	270-271	/											
	271-272	/											
	272-273	/											
S-41*	273-274	18-23	1.5		V. Dense	Tan - Gray	Silty, micaceous, vf to fine	SM ML	Split spoon sample.	0	0	0	0
	274-275	24-27	2.0			Tan - Gray	sand, trace silt laminae, wet.	SM ML					

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW308D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW308
 DATE: 10/27/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-36	275-276	/		[Lithology Change: Dotted Pattern]		Tan - Gray	Silty, micaceous very fine to	SM	Screened mud rotary cuttings.	0	0	0	0
	276-277	/				Tan - Gray	fine sand, trace silt laminae.	SM					
	277-278	/											
	278-279	/											
	279-280	/											
	280-281	/											
	281-282	/											
	282-283	/											
S-37*	283-284	16-22	1.5	[Lithology Change: Dotted Pattern]		Tan-Gray	Silty, very fine to fine sand.	SP	Split spoon sample.	0	0	0	0
	284-285	29-27	2.0					SP					
							Bottom of boring = 285'						

Remarks: Installed monitoring well MW-308, screen from 250' to 260'. Sandpack 245' to 262'. Bentonite pellet seal from 262 to 266. Sand backfill below 266'. Sandpack from 262' to 245'. Bentonite pellet seal 245 to 241. Bentonite cement grout mixture 241' to +/- 5' BGS.

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW308D

Drilling Area Background (ppm):



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPS1-MW309\$
 DATE: 11-9-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Time	Sample No. and Type or RQD	Depth (Fl.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
						Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
		0	/			light Brn		F-M sand some silt and sm. to large gravel etc		moist Past hole dig to 5' bgs	0	0	0	0
1323		5	/			light Brn		F-M sand tr. silt and sm. to lg pebbles		moist	0	0	0	0
B28		10	/			org Brn		F-M sand some sm. to med pebbles tr. C. sand and silt		moist	0	0	0	0
1333		15	/			org Brn		F-M sand tr. C. sand, silt and sm. pebbles very few large pebbles		moist	0	0	0	0
B37		20	/			light Brn		M sand and gravel (sm to lg) some silt C. sand		Moist	0	0	0	0
		25	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Cuttings logged, See MW309D for detailed boring log and gamma logs
4 1/4" ID x 2' OD augers in 5' segments
Pipe in lead auger tank welded, knocked out at TD
 Drilling Area Background (ppm): 0.0

Converted to Well: Yes No Well I.D. #: BPS1-MW309\$



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309\$
 DATE: 11-9-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RGD	Depth (Ft.) or Run No.	Blows / 6" or RGD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
Time 1340	25	/				light Brn	M-C sand and (sm. to lg) gravel		moist	0	0	0	0
		/							Collect 1 gallon zig lock of soil cuttings from 0-30' bgs				
	30	/							Composite @ 1346				
1344		/				light Brn	M-C sand and (sm. to lg) tr. silt + f. sand		moist	0	0	0	0
		/											
	35	/				light Brn	M-C sand and (sm. to lg) tr. silt and f. sand		moist	0	0	0	0
1348		/											
	40	/				org Brn	F-M sand some sm. gravel tr. silt		moist	0	0	0	0
1351		/											
	45	/				org Brn	F-M sand tr. sm. to med pebbles and silt		moist	0	0	0	0
1355		/											
	50	/											

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: See first page for details

Drilling Area
 Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: BPSI-MW309\$



BORING LOG

PROJECT NAME: NW1/4 Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPS1-MW309\$
 DATE: 11-9-11
 GEOLOGIST: J. Birrell
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	50																	
Time 1357						org Bn	F-M sand tr. (sm. to med) pebbles and silt		moist	0	0	0	0					
	55																	
1400						org Bn	F-M sand tr. (sm. to med) pebbles and silt		moist	0	0	0	0					
	60																	
1404						org Bn	F-M sand tr. C. sand and silt		moist	0	0	0	0					
	65			EOB 63' bgs					driller notes the start of a kick at 63' bgs									

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: See first page for details

Drilling Area
 Background (ppm): 0.0

Converted to Well: Yes No Well I.D. #: BPS1-MW309\$



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing

BORING No.: BPSJ-MW309 I
 DATE: 11-7-11
 GEOLOGIST: J. Birke
 DRILLER: J. Gucci

Time	Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)							
						Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**				
1115		0	/				Brn	F-C sand some silt and pebbles		dry	0	0	0	0				
			/							Post-hole dig to 5 ft								
1125		5	/				Brn	F-C sand some silt and sm. to lg pebbles		moist	0	0	0	0				
			/															
		10	/															
1130			/				Brn	FC sand some silt and sm. to lg pebbles		moist	0	0	0	0				
			/															
		15	/															
1135			/				Brn	FC sand some silt and sm. to lg pebbles		moist	0	0	0	0				
			/															
		20	/															
1140			/				Brn	F-M sand some silt tr. sm. to med pebbles		moist	0	0	0	0				
			/															
		25	/															

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Cuttings logged, see MW309D for detailed logs w/ gamma Drilling Area Background (ppm): 0, 0
4 1/4" ID x 8" OD augers in 5' segments
Pipe is lead auger tank welded

Converted to Well: Yes No Well I.D. #: BPSJ-MW309 I



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112 G02230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309 I
 DATE: 11-7-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	25																	
Time 1145					Org Brn		F-M sand some silt tr. pebbles and C. sand		moist	0	0	0	0					
	30																	
1150					Org Brn		M sand some silt and F sand tr. pebbles and C. sand sm. to lg		moist	0	0	0	0					
	35																	
1155					Org Brn		M. sand some silt and F sand tr. pebbles and C sand sm. to lg		moist	0	0	0	0					
	40																	
1307					Org Brn		F-M sand tr. silt, C sand, and small to med pebbles		moist	0	0	0	0					
	45																	
1310					Org Brn		F-M sand tr. silt and C. sand very few sm. pebbles		moist	0	0	0	0					
	50																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: See first page

Drilling Area Background (ppm): 0,0

Converted to Well: Yes No Well I.D. #: BPSI-MW309 I



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309I
 DATE: 11-7-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	50																	
Time 1315					Org Brn		F-M sand tr. silt and C sand very few sm. to med. pebbles		Moist	0	0	0	0					
	55																	
1319					Org Brn		F-M sand tr. silt and C sand very few sm. to med pebbles		Moist	0	0	0	0					
	60																	
1323					Org Brn		F-M sand tr to some sm. pebbles tr. silt and C sand		moist to wet	0	0	0	0					
	65								Driller notes clay around 64' bgs in 4' thick									
1329					ORG BRN		F-M sand tr to some silt very few pebbles		wet	0	0	0	0					
	70				light Brn		F-M sand some silt very few pebbles		wet	0	0	0	0					
1333					light Brn		F-M sand some silt tr. C sand very few pebbles		wet	0	0	0	0					
	75																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: See first page

Drilling Area
Background (ppm): 0.0

Converted to Well: Yes No Well I.D. #: BPSI-MW309I



BORING LOG

PROJECT NAME: NWIRP Bothpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309I
 DATE: 11-7-11
 GEOLOGIST: J. Birkeat
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
Time 1339	75	/			off light Bin		F-M sand some silt very few small pebbles		wet Drillers notes a small kick at 76'	0	0	0	0
	80	/											
1343		/			off light Bin		M-C sand some silt and F sand very few sm. pebbles		wet	0	0	0	0
	85	/											
1347		/			light Bin		M-C sand some silt and F sand very few sm. pebbles		wet	0	0	0	0
	90	/											
1352		/			light Bin		M sand some silt and F sand very few sm. pebbles		wet	0	0	0	0
	95	/											
1356		/			light Bin		F-M sand some silt and clay tr. C. sand and sm. pebbles		wet sticky cuttings	0	0	0	0
	100	/							Filled bucket of Front end loader driller leave to put in roll off				

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: See first page

Drilling Area Background (ppm): 0.0

Converted to Well: Yes No Well I.D. #: BPSI-MW309J



BORING LOG

PROJECT NAME: NWRP Bethpage
 PROJECT NUMBER: 112602230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309I
 DATE: 11-7-11
 GEOLOGIST: J. Birkell
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	100																	
Time 1409						light Brn	F-M sand some silt/clay tr. C. sand and sm. pebbles		wet sticky	0	0	0	0					
	105																	
1435						light Brn	F-M sand some silt/clay tr. C. sand		wet sticky	0	0	0	0					
	110																	
1439						light Brn	silty F-M sand tr. C. sand		wet sticky	0	0	0	0					
	115																	
1444						light Brn	silty F-M sand tr. C. sand		wet s	0	0	0	0					
	120																	
1451						light Brn	silty F-M sand tr. C. sand		wet	0	0	0	0					
	125																	

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: See first page

Drilling Area Background (ppm): 0.0

Converted to Well: Yes No Well I.D. #: BPSI-MW309I



BORING LOG

PROJECT NAME: NWRP Bethpage
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta
 DRILLING RIG: Failing 110

BORING No.: BPS1-MW309E
 DATE: 11-7-11 and 11-8-11
 GEOLOGIST: J. Birkett
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Fl.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
Time 1455	125	/				light Brn	Silty F-M sand to c. sand		Clippings - water content increasing wet	0	0	0	0
11-7-11	130	/											
11-8-11		/				light Brn	Silty F-M sand		wet	0	0	0	0
D735		/											
	135	/											
0741		/				light Brn	Silty F-M sand		wet	0	0	0	0
		/											
	140	/				light Brn	F-M sand some silt		wet	0	0	0	0
0746		/											
		/											
	145	/				light Brn	F-M sand some silt		wet	0	0	0	0
0750		/											
		/											
	150	/											

* When rock coring, enter rock brokeness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: See first page

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-MW309E



BORING LOG

PROJECT NAME: NWIRP Bethpage
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta R
 DRILLING RIG: Failing 110

BORING No.: BPSI-MW309I
 DATE: 11-8-11
 GEOLOGIST: J. Birkell
 DRILLER: J. Gucci

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)								
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**					
	150																	
Time 0753						light Bin	F-M sand some silt		wet		0	0	0	0				
	155																	
0758						light Bin	F-M sand some silt		wet		0	0	0	0				
	160																	
0803						light Bin	F-M sand some silt		wet		0	0	0	0				
									unload cuttings									
	165																	
0819						light Bin	F-M sand some silt, C sand		wet		0	0	0	0				
	170																	
					EOB 170' bgs													
	175																	

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: See first page

Drilling Area Background (ppm): 0.0

Converted to Well: Yes X No _____ Well I.D. #: BPSI-MW309I



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/11/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-1	0-1	/				Dark Brn	Silty, med.-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	1-2	/					tr.-little, med. Gravel,moist.	SM	BPS1-TT-MW309-0005				
	2-3	/											
	3-4	/											
	4-5	/											
S-2	5-6	/				Dark Brn	Silty, med.-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	6-7	/					tr.-little, med. Gravel,moist.	SM	BPS1-TT-MW309-0510				
	7-8	/											
	8-9	/											
	9-10	/											
S-3	10-11	/				brn.	Silty, med.-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	11-12	/					little- med. to coarse gravel,	SM	BPS1-TT-MW309-1015				
	12-13	/					moist.						
	13-14	/											
	14-15	/											
S-4	15-16	/				brn.	Silty, med.-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	16-17	/					little- med. to coarse gravel,	SM	BPS1-TT-MW309-1520				
	17-18	/					moist.						
	18-19	/											
	19-20	/											
S-5	20-21	/				brn.	Silty, med.-coarse sand,	SM	Logged auger cuttings.	0	0	0	0
	21-22	/					little- med. to coarse gravel,	SM	BPS1-TT-MW309-2025				
	22-23	/					moist.						
	23-24	/											
	24-25	/											

Remarks: Set 8" I.D. Sch. 40 steel surface casing to 25' below ground surface. Drilling Area
12" ID HSA borehole to 25' BGS, annular space filled with bentonite at base. Soil backfill above. Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/13/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-6	25-26	/				Tan-Lt. brn.	Fine to coarse sand and	SM/G M	Screened mud rotary cuttings.	0	0	0	0
	26-27	/						SM/G M					
	27-28	/											
	28-29	/											
	29-30	/											
S-7	30-31	/				Tan-Lt. brn.	Silty, med.-coarse sand,	SM/G M	Screened mud rotary cuttings.	0	0	0	0
	31-32	/					little- med. to coarse gravel,	SM/G M					
	32-33	/						moist.					
	33-34	/											
	34-35	/											
S-8	35-36	/				Tan-Lt. brn.	Silty, med.-coarse sand,	SM/G M	Screened mud rotary cuttings.	0	0	0	0
	36-37	/					little- med. to coarse gravel,	SM/G M					
	37-38	/						moist.					
	38-39	/											
	39-40	/											
S-9	40-41	/				Light brn.	Silty, med.-coarse sand,	SM/G M	Screened mud rotary cuttings.	0	0	0	0
	41-42	/					little- med. to coarse gravel,	SM/G M					
	42-43	/						moist.					
	43-44	/											
	44-45	/											
S-10	45-46	/				Tan	Fine-coarse sand,	SW	Screened mud rotary cuttings.	0	0	0	0
	46-47	/					little- med. to coarse gravel,	SW					
	47-48	/						moist.					
S-11*	48-49	12-16				Tan	Silty, med.-coarse sand, wet.	SM	Split spoon sample	0	0	0	0
	49-50	18-20						SM					

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/13/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-12	50-51	/				Light brn.	Fine to coarse sand and	SM/G M	Screened mud rotary	0	0	0	0
	51-52	/					fine to coarse gravel, moist.	SM/G M		cuttings.			
	52-53	/											
	53-54	/											
	54-55	/											
S-13	55-56	/				Tan- Lt. brn.	Fine to coarse sand and	SP	Screened mud rotary	0	0	0	0
	56-57	/					fine to coarse gravel, moist.	SP		cuttings.			
	57-58	/											
S-14*	58-59	14-17				Tan- Org. brn.	med. to coarse sand,	SP	Split spoon sample.	0	0	0	0
	59-60	19-23					moist to wet.	SP					
	60-61	/											
	61-62	/											
	62-63	/											
S-15	64-65	/				Tan - brn.	Sandy (fine to med.) Silt	ML SM	Screened mud rotary	0	0	0	0
	65-66	/				Tan - brn.		ML SM		and geophysical log.			
	66-67	/				Tan - brn.		ML SM					
	67-68	/				Tan - brn.		ML SM					
	68-69	/				Tan - brn.		ML SM					
	69-70	/											
S-16	70-71	/				Tan - brn.	Micaceous, fine to coarse sand	SM	Screened mud rotary	0	0	0	0
	71-72	/					with silt laminae, wet.	SM		cuttings.			
	72-73	/											
	73-74	/											
	74-75	/											

Remarks: _____ Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/13/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-14	75-76	/			Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	76-77	/						SM	cuttings.				
	77-78	/					little lignite						
	78-79	/											
	79-80	/											
S-15	80-81	/			Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	81-82	/						SM	cuttings.				
	82-83	/					little lignite						
	83-84	/											
	84-85	/											
S-16	85-86	/			Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	86-87	/						SM	cuttings.				
	87-88	/					little lignite						
	88-89	/											
	89-90	/											
S-17	90-91	/			Tan - Org. brn	Silty, micaceous, fine to coarse	SM	Screened mud rotary	0	0	0	0	
	91-92	/						SM	cuttings.				
	92-93	/					little lignite						
	93-94	/											
	94-95	/											
	95-96	/											
	96-97	/											
	97-98	/											
	98-99	/											
	99-100	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/ /2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-18	100-101	/				Tan - Org. brn	Silty, fine to med. sand	ML/S M	Screened mud rotary	0	0	0	0
	101-102	/					with silt laminae, tr. to	ML/S M	cuttings and geophysical				
	102-103	/					little lignite		log.				
	103-104	/											
	104-105	/											
	105-106	/											
	106-107	/											
	107-108	/											
	108-109	/											
	109-110	/											
S-19	110-111	/				Tan - Org. brn	Silty, micaceous, fine to coarse	ML/S M	Screened mud rotary	0	0	0	0
	111-112	/					sand with silt laminae, tr. to	ML/S M	cuttings.				
	112-113	/					little lignite						
	113-114	/											
	114-115	/											
	115-116	/											
	116-117	/											
	117-118	/											
	118-119	/											
	119-120	/											
S-20	120-121	/				Tan - Org. brn	Silty, micaceous, med. to coarse	SM	Screened mud rotary	0	0	0	0
	121-122	/					sand with silt laminae, tr. to	SM	cuttings.				
	122-123	/					little lignite						
	123-124	/					Sandy (fine to med.) Silt	ML SM ML SM	Geophysical log.	0	0	0	0
	124-125	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated reponse read.

Remarks: _____

Drilling Area
 Background (ppm):

Converted to Well: Yes No Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/ /2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	125-126	/											
	126-127	/											
	127-128	/											
	128-129	/											
	129-130	/											
S-21	130-131	/				Tan - Org. brn	Silty, micaceous, med. to coarse	SM	Screened mud rotary	0	0	0	0
	131-132	/					sand with silt laminae, tr. to	SM	cuttings.				
	132-133	/					little lignite						
	133-134	/											
	134-135	/											
	135-136	/											
	136-137	/											
	137-138	/											
S-22	138-139	15-20				Tan - Org. brn	Silty, micaceous, med. to coarse	SM	Split spoon sample.	0	0	0	0
	139-140	15-20					sand with silt laminae, tr. lignite.	SM					
	140-141	/											
	141-142	/											
	142-143	/											
	143-144	/											
	144-145	/											
	145-146	/											
	146-147	/											
	147-148	/											
S-23	148-149	10-12				Tan - Org. brn	Silty, micaceous, med. to coarse	SM	Split spoon sample.	0	0	0	0
	149-150	15-20					sand with silt laminae, tr. lignite.	SM					

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No

Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - PCB Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/ /2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	150-151	/											
	151-152	/											
	152-153	/											
	153-154	/											
	154-155	/											
	155-156	/											
	156-157	/											
	157-158	/											
	158-159	/											
	159-160	/											
S-24	160-161	/			Tan - Gray	Silty, micaceous, fine to med.	SM	Screened mud rotary	0	0	0	0	
	161-162	/				sand with silt laminae, tr. lignite.	SM	cuttings.					
	162-163	/											
	163-164	/											
	164-165	/											
	165-166	/											
	166-167	/											
	167-168	/											
	168-169	/											
	169-170	/											
S-25	170-171	/			Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0	
	171-172	/				silty, very fine to fine sand.	ML/S M	cuttings.					
	172-173	/											
	173-174	/											
	174-175	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____

Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/14/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
	175-176	/											
	176-177	/											
	177-178	/											
	178-179	/											
	179-180	/											
S-26	180-181	/				Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0
	181-182	/					silty, very fine to fine sand.	ML/S M	cuttings.				
	182-183	/											
	183-184	/											
	184-185	/											
	185-186	/											
	186-187	/											
	187-188	/											
	188-189	/											
	189-190	/											
S-27	190-191	/				Gray	Silty, micaceous, sandy silt and	ML/S M	Screened mud rotary	0	0	0	0
	191-192	/					silty, very fine to fine sand.	ML/S M	cuttings.				
	192-193	/											
	193-194	/											
	194-195	/											
	195-196	/											
	196-197	/											
	197-198	/											
	198-199	/											
	199-200	/											

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm):

Converted to Well: Yes No

Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/14/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-28	200-201	/	/			Tan - Gray	Silty, micaceous, fine to med.	SM	Screened mud rotary	0	0	0	0
	201-202	/	/				sand with silt laminae, tr. lignite.	SM	cuttings.				
	202-203	/	/										
	203-204	/	/										
	204-205	/	/										
	205-206	/	/										
	206-207	/	/										
	207-208	/	/										
	208-209	/	/										
	209-210	/	/										
S-29	210-211	/	/			Tan - Gray	Silty, micaceous, fine to med.	SM	Screened mud rotary	0	0	0	0
	211-212	/	/				sand with silt laminae, tr. lignite.	SM	cuttings.				
	212-213	/	/										
	213-214	/	/										
	214-215	/	/										
	215-216	/	/										
	216-217	/	/										
S-30	217-218	/	/			Dark brn.	Coarse sand and fine gravel,	SM GM	Screened mud rotary	0	0	0	0
	218-219	/	/			Dark brn.	little to some silt, oxidized, wet.	SM GM	cuttings.				
	219-220	/	/										
	220-221	/	/										
	221-222	/	/										
	222-223	/	/										
	223-224	/	/										
	224-225	/	/										

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/14/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)				
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**	
S-31	225-226	/				Tan - Gray	Silty, very fine to fine sand	SM	Screened mud rotary	0	0	0	0	
	226-227	/						tr. to little silt laminae.	SM	cuttings.				
	227-228	/												
	228-229	/												
	229-230	/												
	230-231	/												
	231-232	/												
	232-233	/												
	233-234	/												
	234-235	/												
	235-236	/												
	236-237	/												
	237-238	/												
	238-239	/												
	239-240	/												
S-32	240-241	/				Dark brn. to	Coarse sand and fine gravel,	SM GM	Screened mud rotary	0	0	0	0	
	241-242	/					org. brn.	little to some silt, oxidized, wet.	SM GM	cuttings.				
	242-243	/												
	243-244	/												
	244-245	/												
	245-246	/												
	246-247	/												
	247-248	/												
	248-249	/												
	249-250	/												

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: _____

Drilling Area Background (ppm): 0

Converted to Well: Yes X No _____ Well I.D. #: BPS1-TT-MW309D



BORING LOG

PROJECT NAME: Site 1 - Investigation
 PROJECT NUMBER: 112G02230
 DRILLING COMPANY: Delta Drilling
 DRILLING RIG: Mud Rotary / HSA

BORING No.: BPS1-TT-MW309
 DATE: 10/17/2011
 GEOLOGIST: J. Ferguson
 DRILLER: B. Murphy / K. Cronin

Sample No. and Type or RQD	Depth (Ft.) or Run No.	Blows / 6" or RQD (%)	Sample Recovery / Sample Length	Lithology Change (Depth/Ft.) or Screened Interval	MATERIAL DESCRIPTION			U S C S *	Remarks	PID/FID Reading (ppm)			
					Soil Density/ Consistency or Rock Hardness	Color	Material Classification			Sample	Sampler BZ	Borehole**	Driller BZ**
S-33	250-251	/				Tan - Gray	Silty, micaceous very fine to	SM	Screened mud rotary	0	0	0	0
	251-252	/				Tan - Gray	fine sand, tr. silt laminae.	SM	cuttings.				
	252-253	/											
	253-254	/											
	254-255	/											
	255-256	/											
	256-257	/											
	257-258	/											
	258-259	/											
	259-260	/											
	260-261	/											
	261-262	/											
	262-263	/											
	263-264	/											
S-34	264-265	/				Tan - Gray	Clayey, micaceous f.sand and	SC CL	Screened mud rotary	0	0	0	0
	265-266	/				Tan - Gray	sandy, clay.	SC CL	cuttings and geophysical				
	266-267	/							log.				
	267-268	/											
	268-269	/											
	269-270	/											
	270-271	/											
	271-272	/											
	272-273	/											
S-35*	273-274	18-23			Stiff	Dark - Gray	Sandy (fine) clay and clayey	SC CL	Split spoon sample.	0	0	0	0
	274-275	24-27				to Gray	fine sand (interbedded).	SC CL					

* When rock coring, enter rock brokenness.

** Include monitor reading in 6 foot intervals @ borehole. Increase reading frequency if elevated response read.

Remarks: Installed 2" ID Sch 40 PVC Well Screen from 252' to 262'. Drilling Area Background (ppm): 0
#1 Silica sandpack from 248' to 262'.
4' Bentonite pellet seal 244' to 268'. Cetco bentonite/portland cement annular seal to 10' BGS.

Converted to Well: Yes X No Well I.D. #: BPS1-TT-MW309D

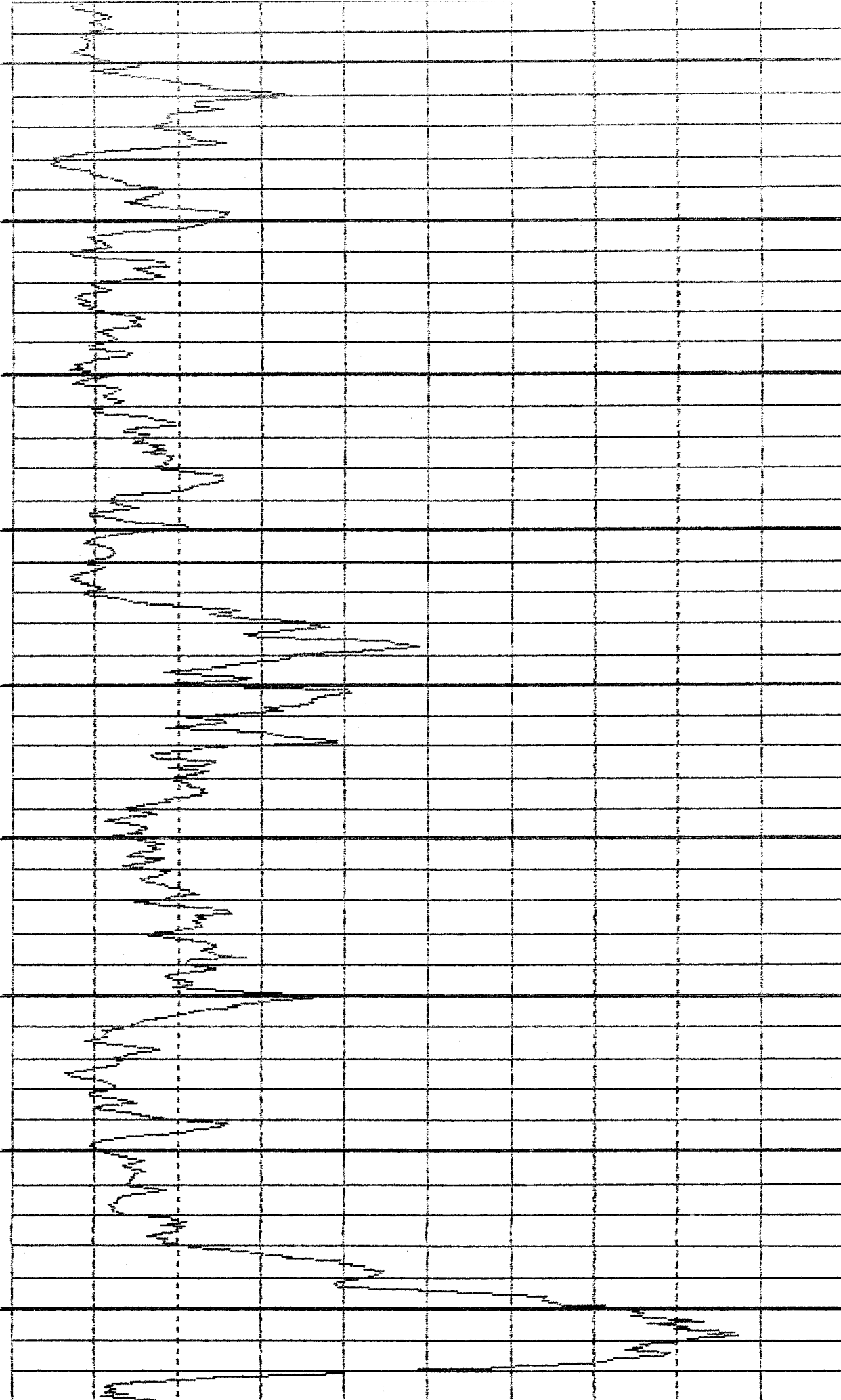
Gamma Logs

80

100

120

140



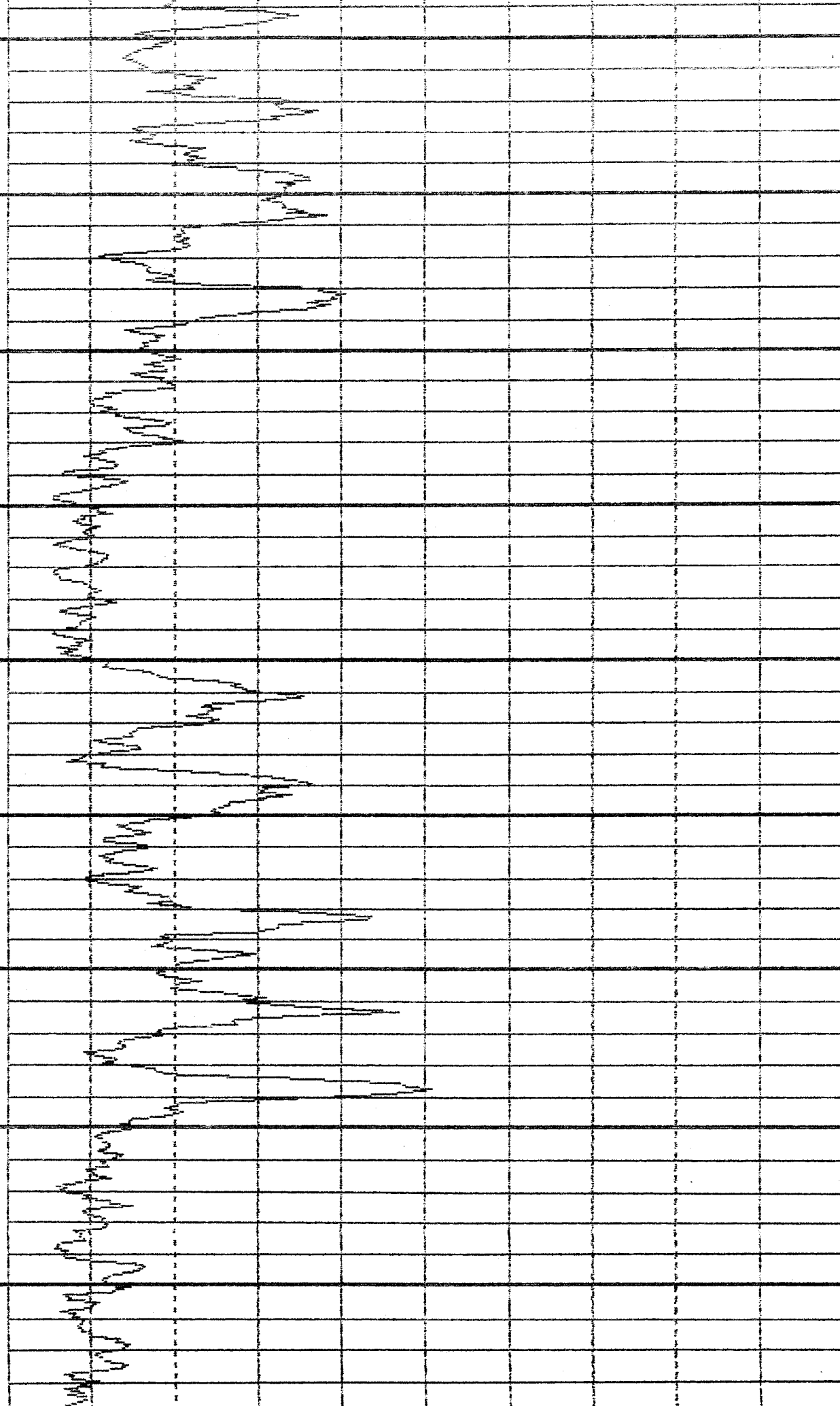
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180

200

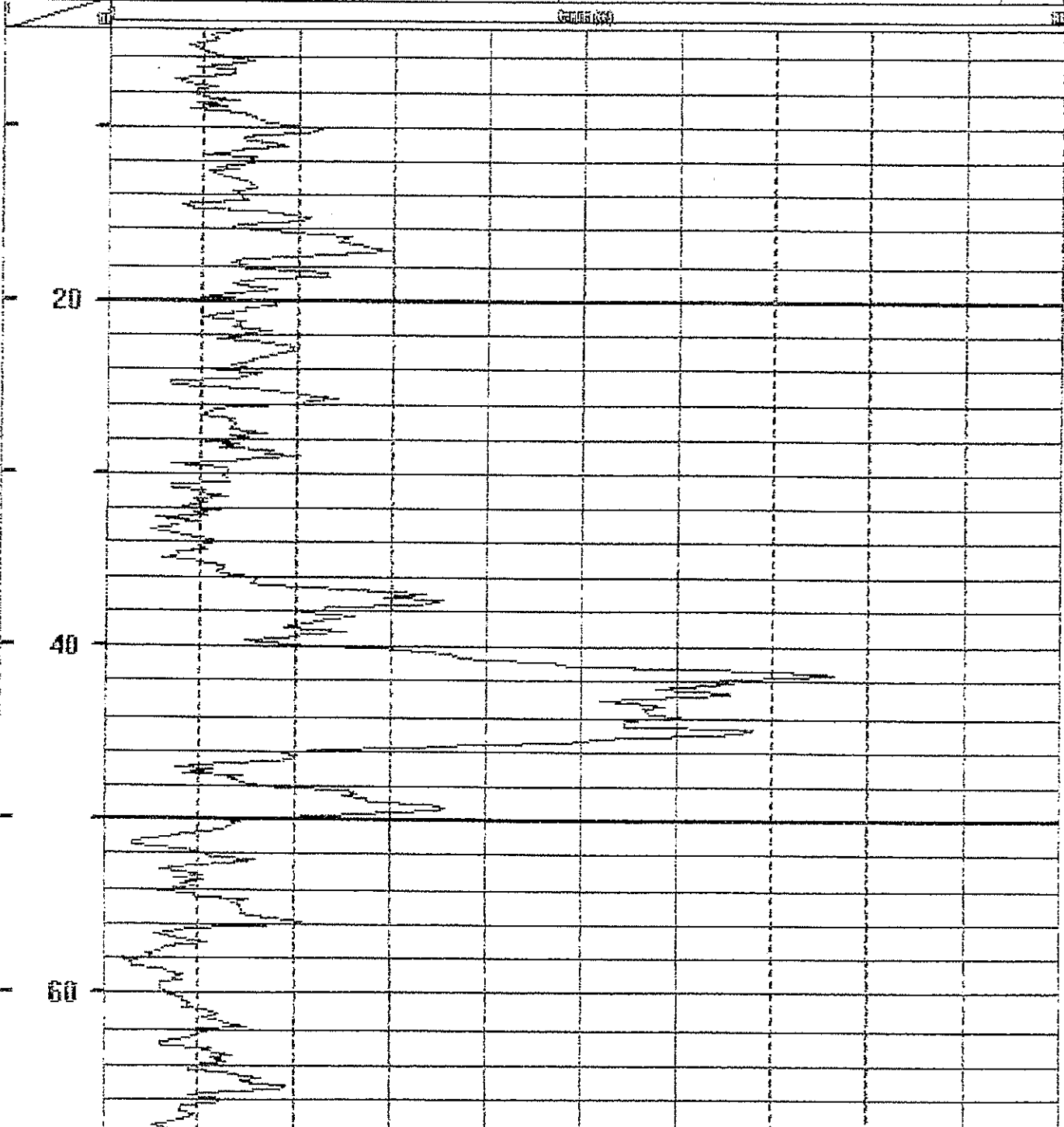
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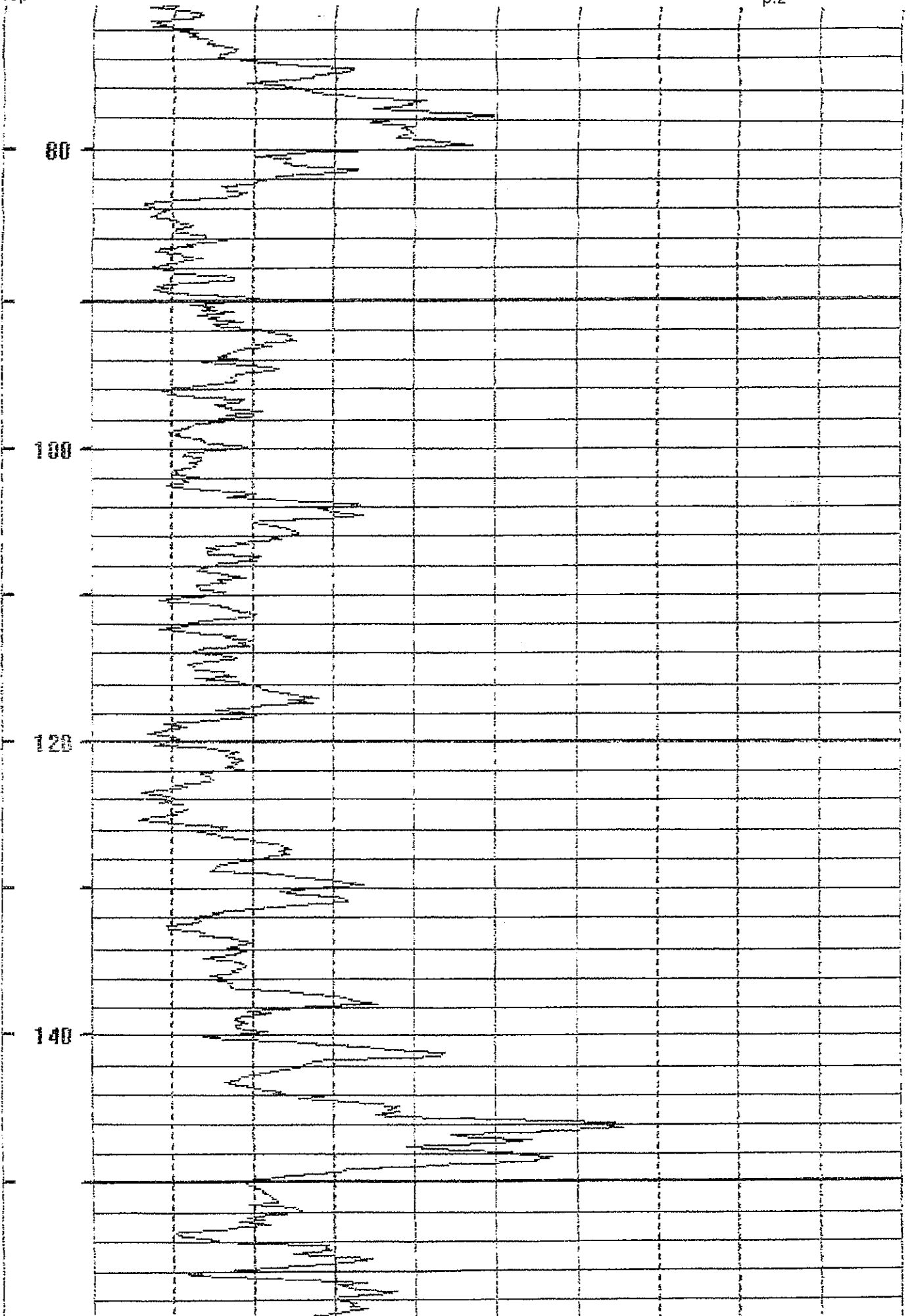
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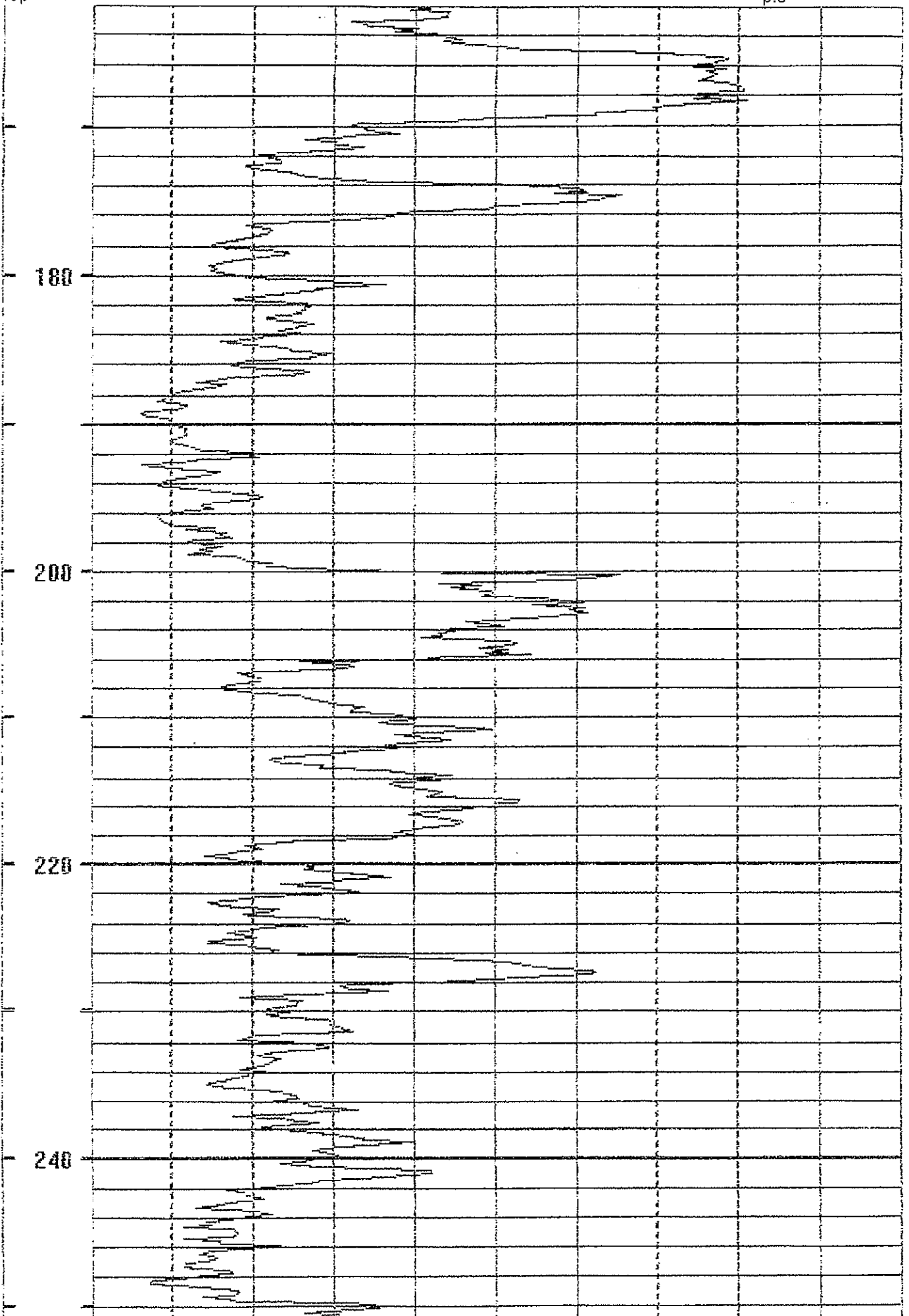


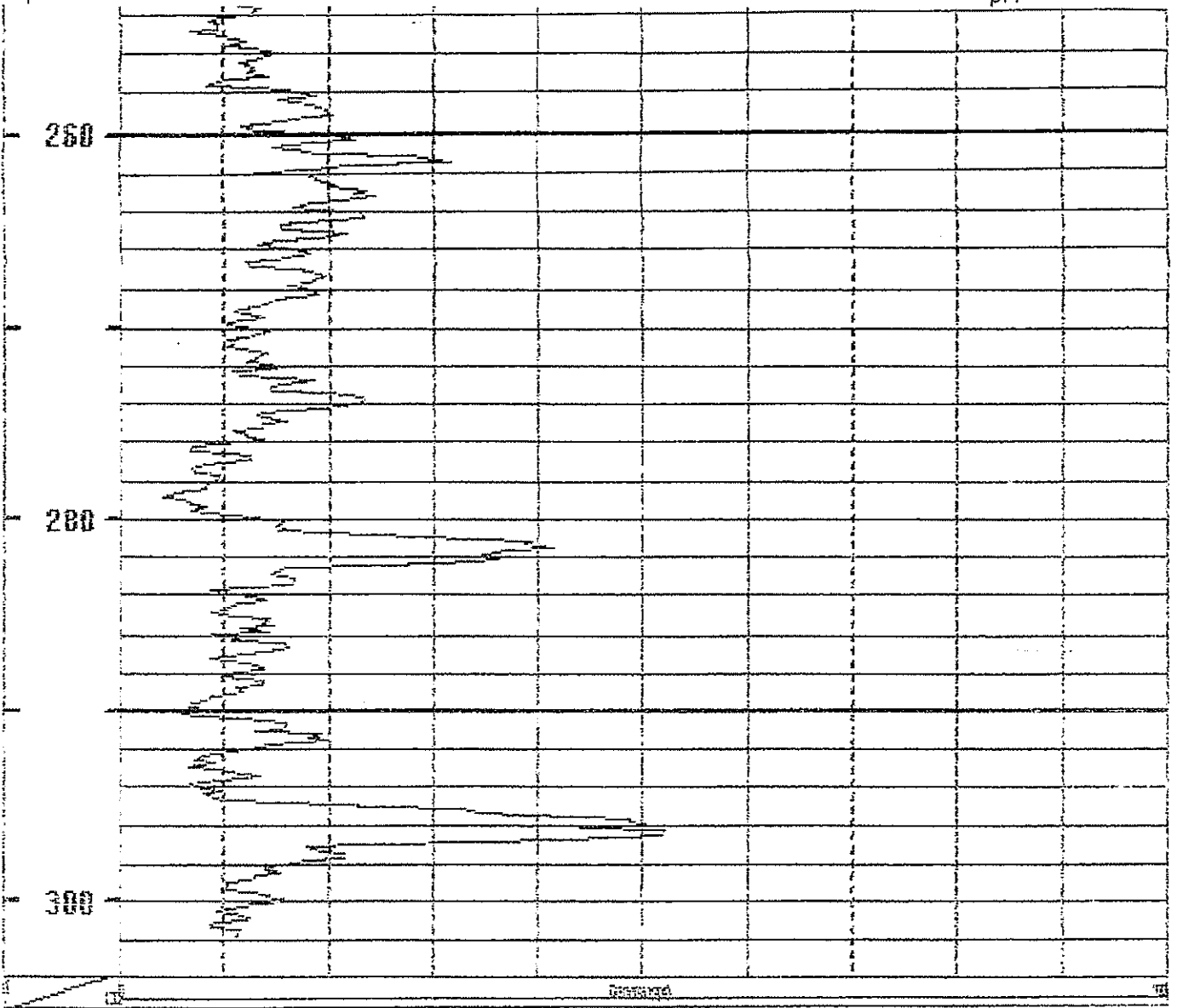
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COMPANY		DELTA WELL & PUMP CO., INC.		Casing
Location:		RWFP BETHPAGE		
Well	BP-S1-TT-MW336	Depth Driller		
		Depth Logger		
Date	11/29/11	BH Fluid		
File Name	722	Witness:	VINCE	



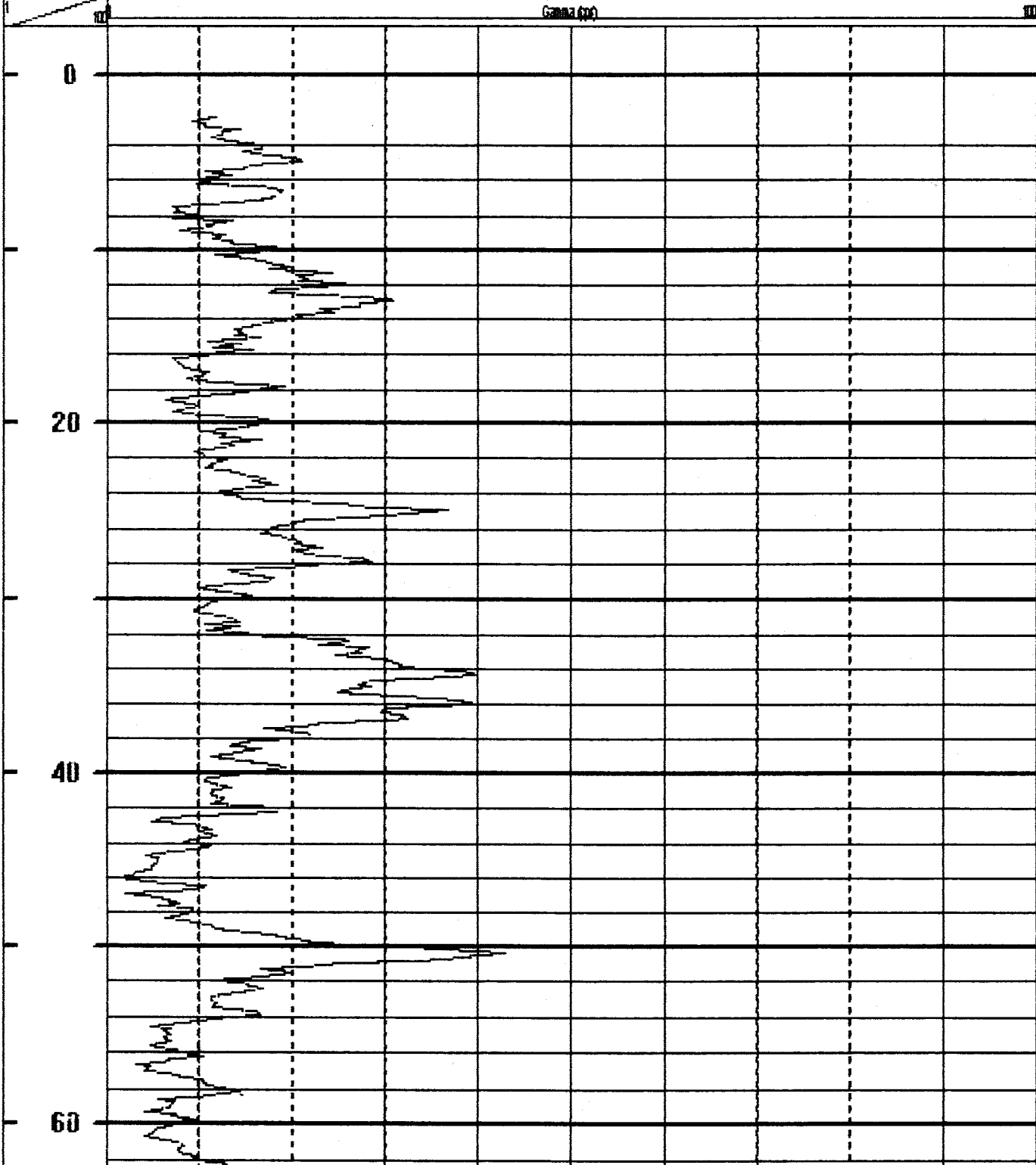


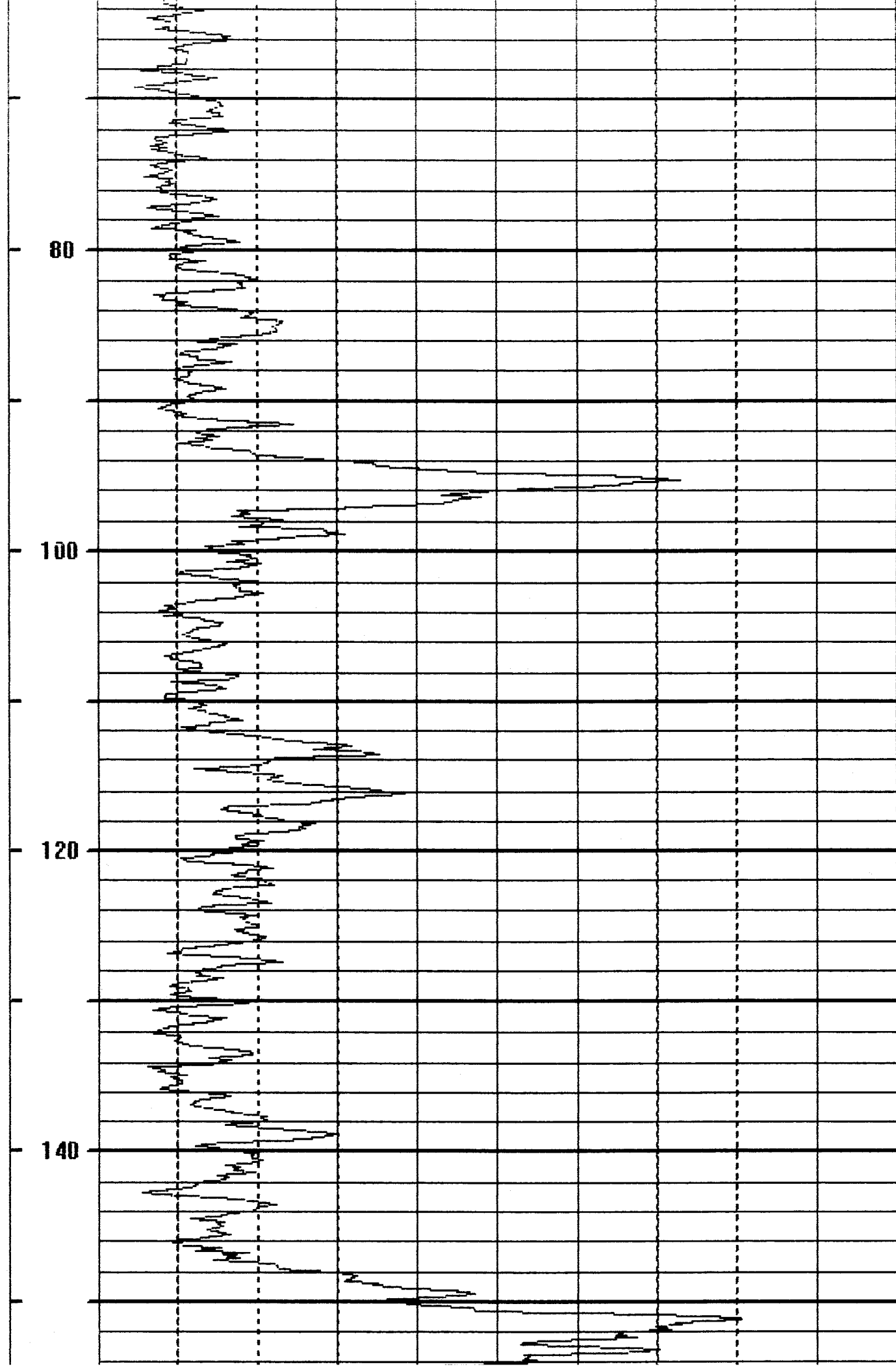


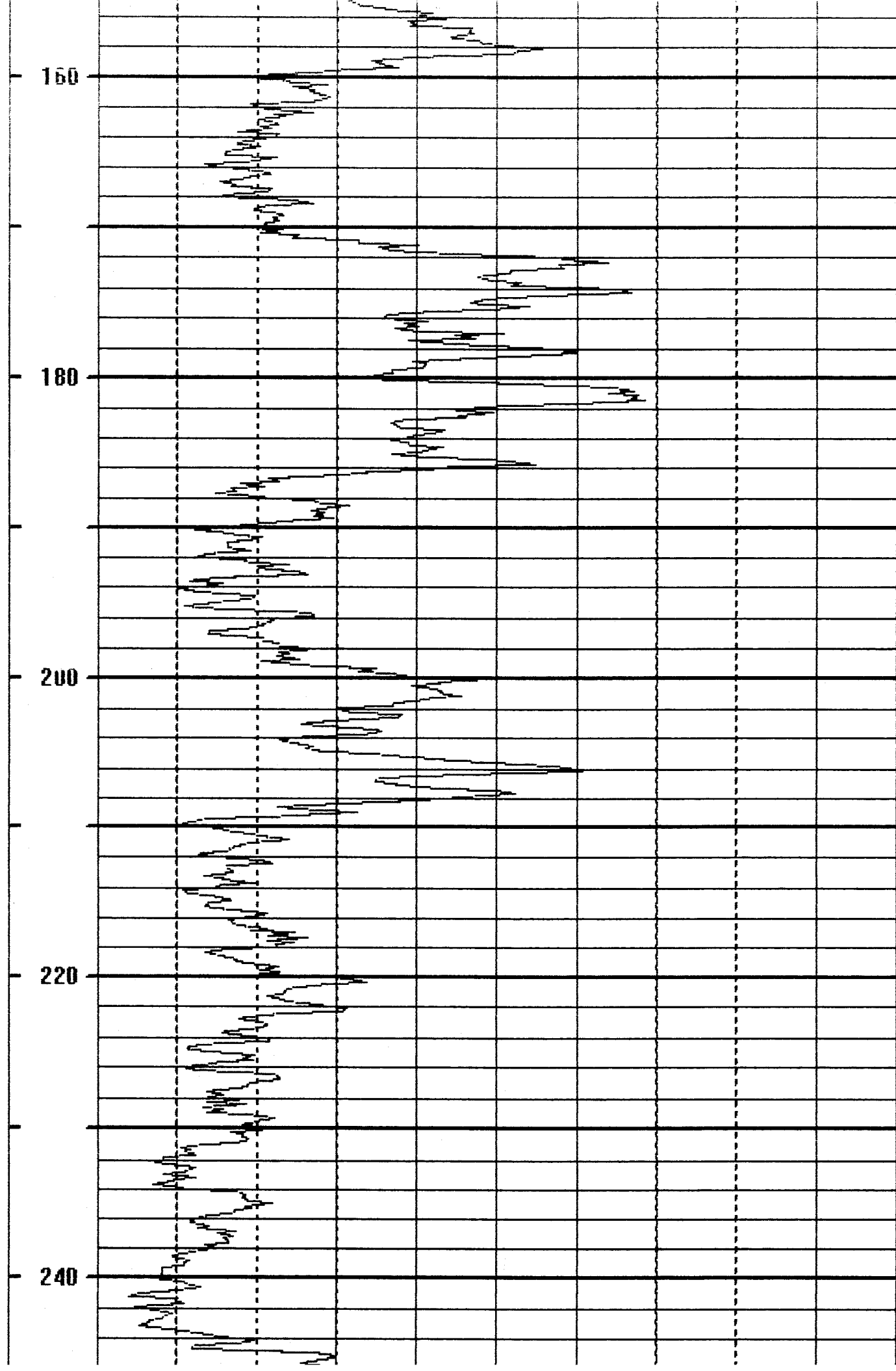


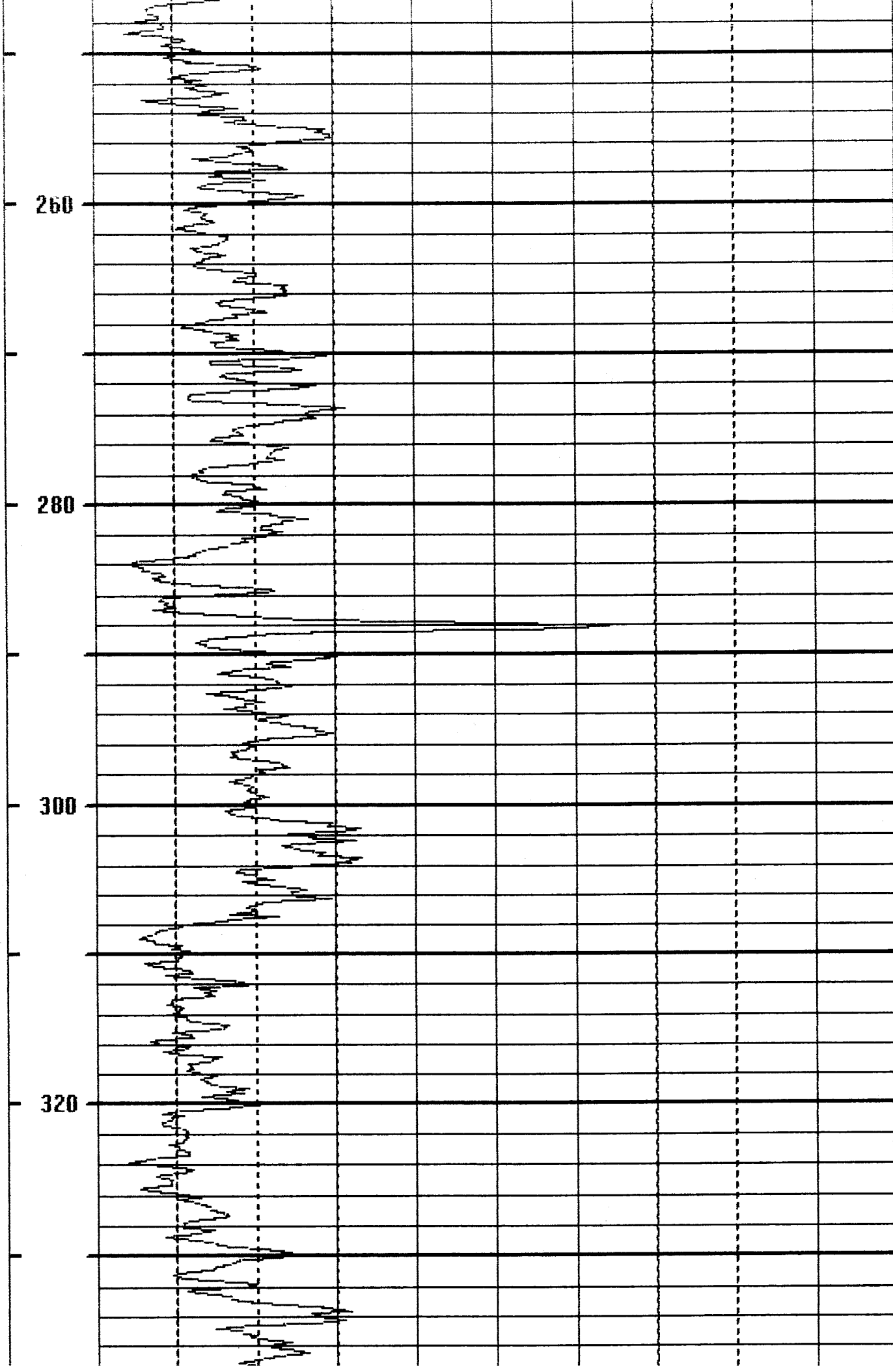
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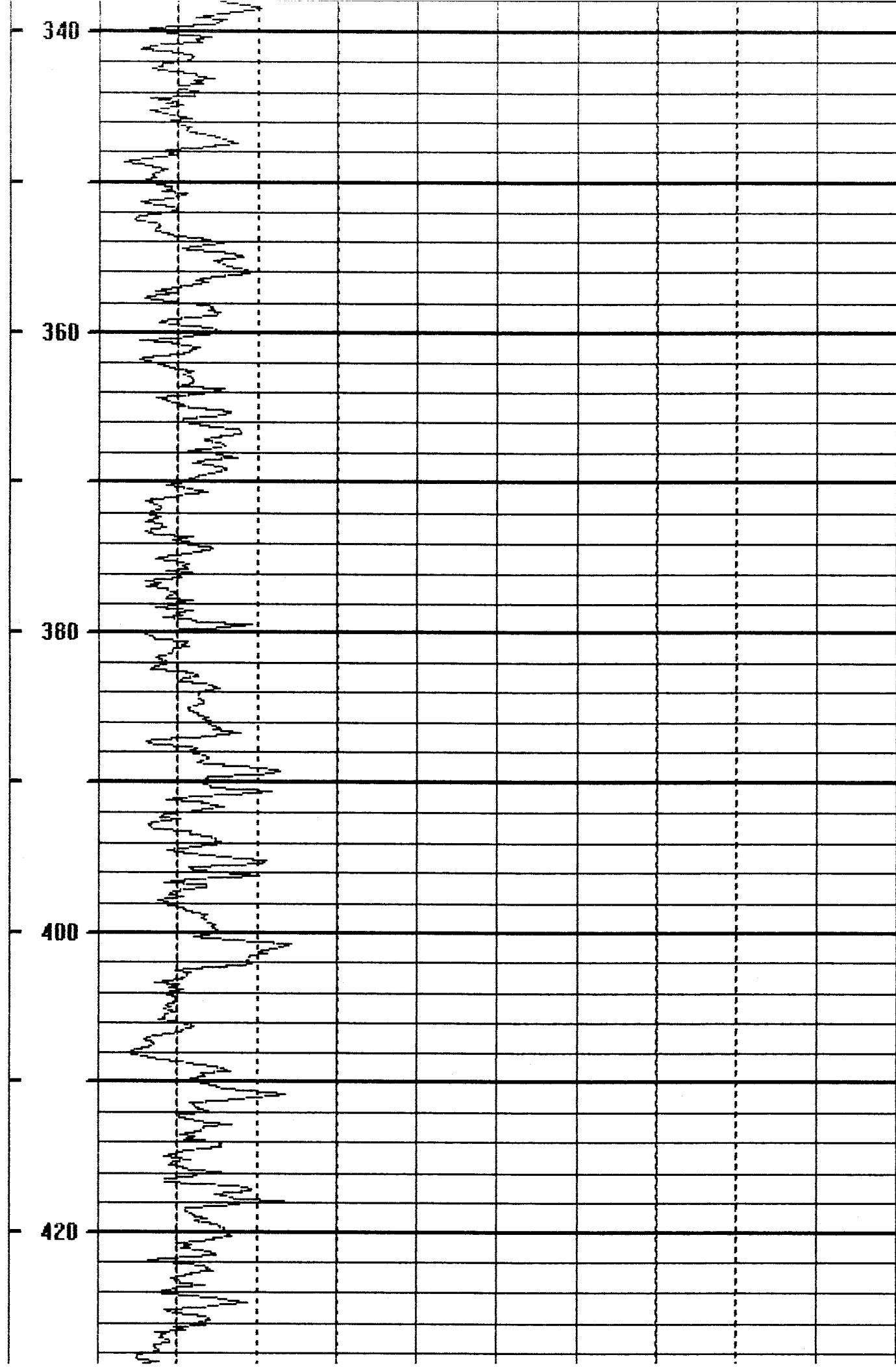
COMPANY: DELTA WELL & PUMP CO., INC.		Casing
LOCATION: NWRF BETHPAGE		
Well	BP-S1-TT-MW307	Depth Driller
		Depth Logger
Date	11/07/11	Logged by: JRC
File Name	723	Witness: J. FERGUSON



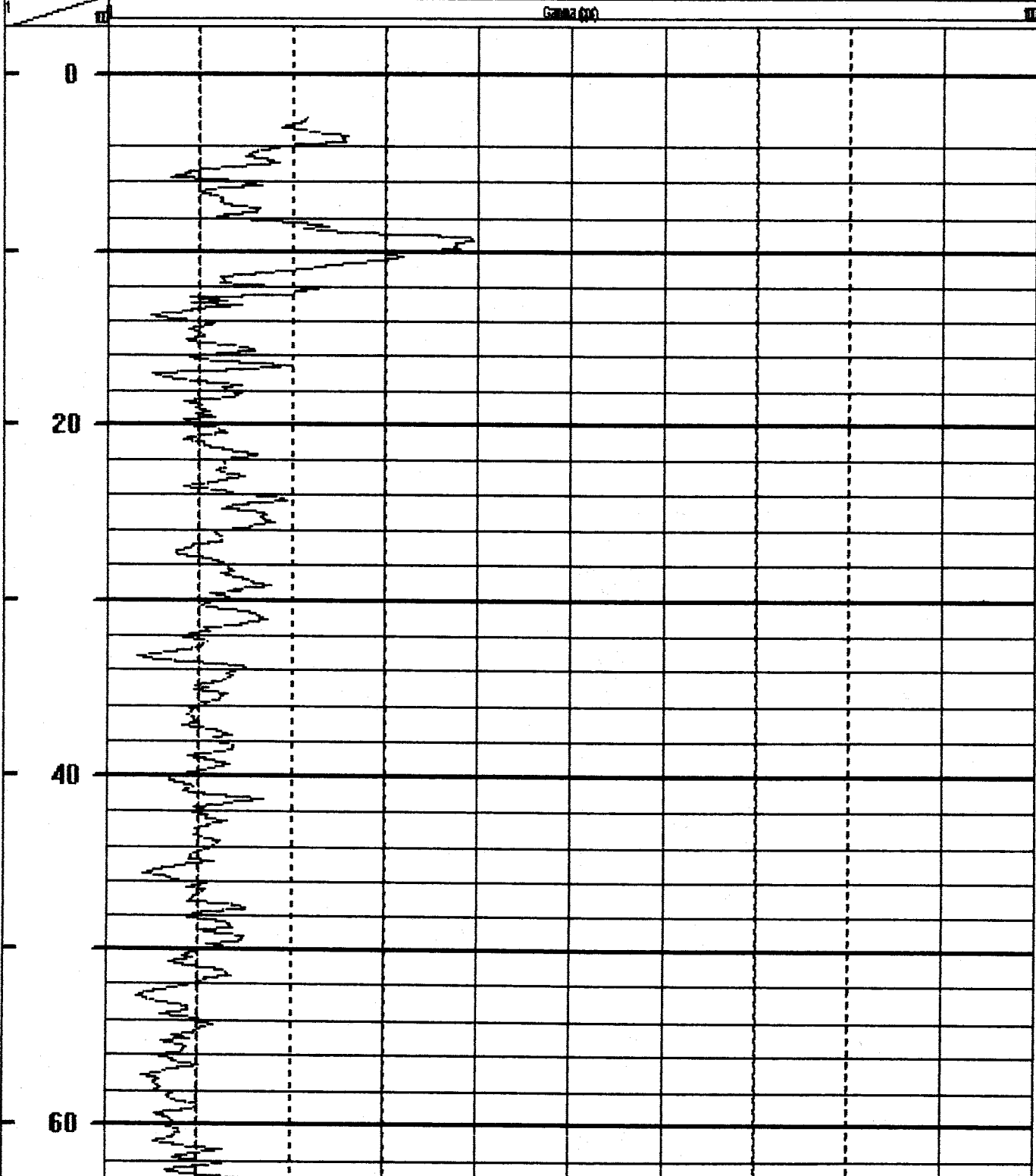


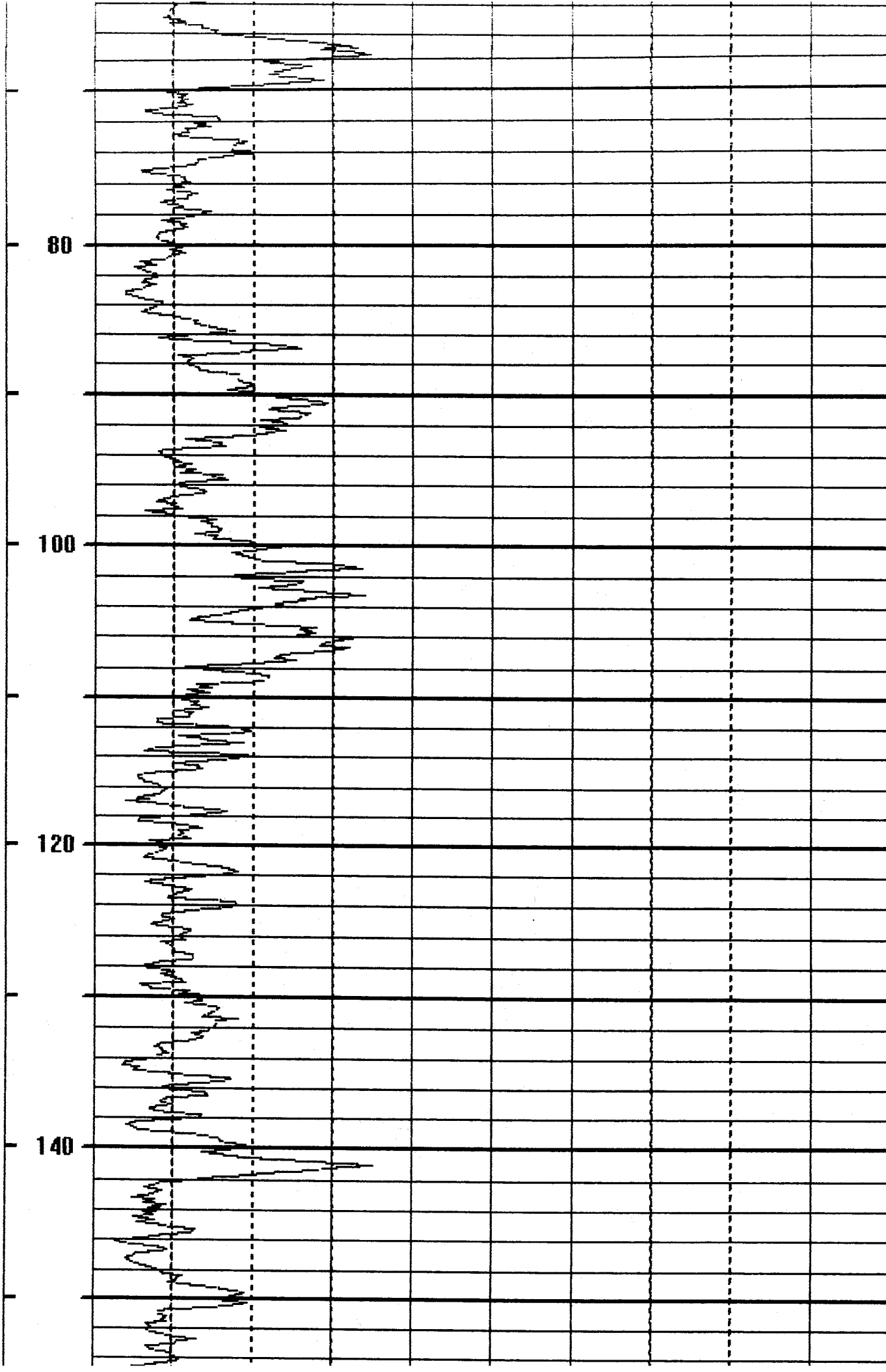


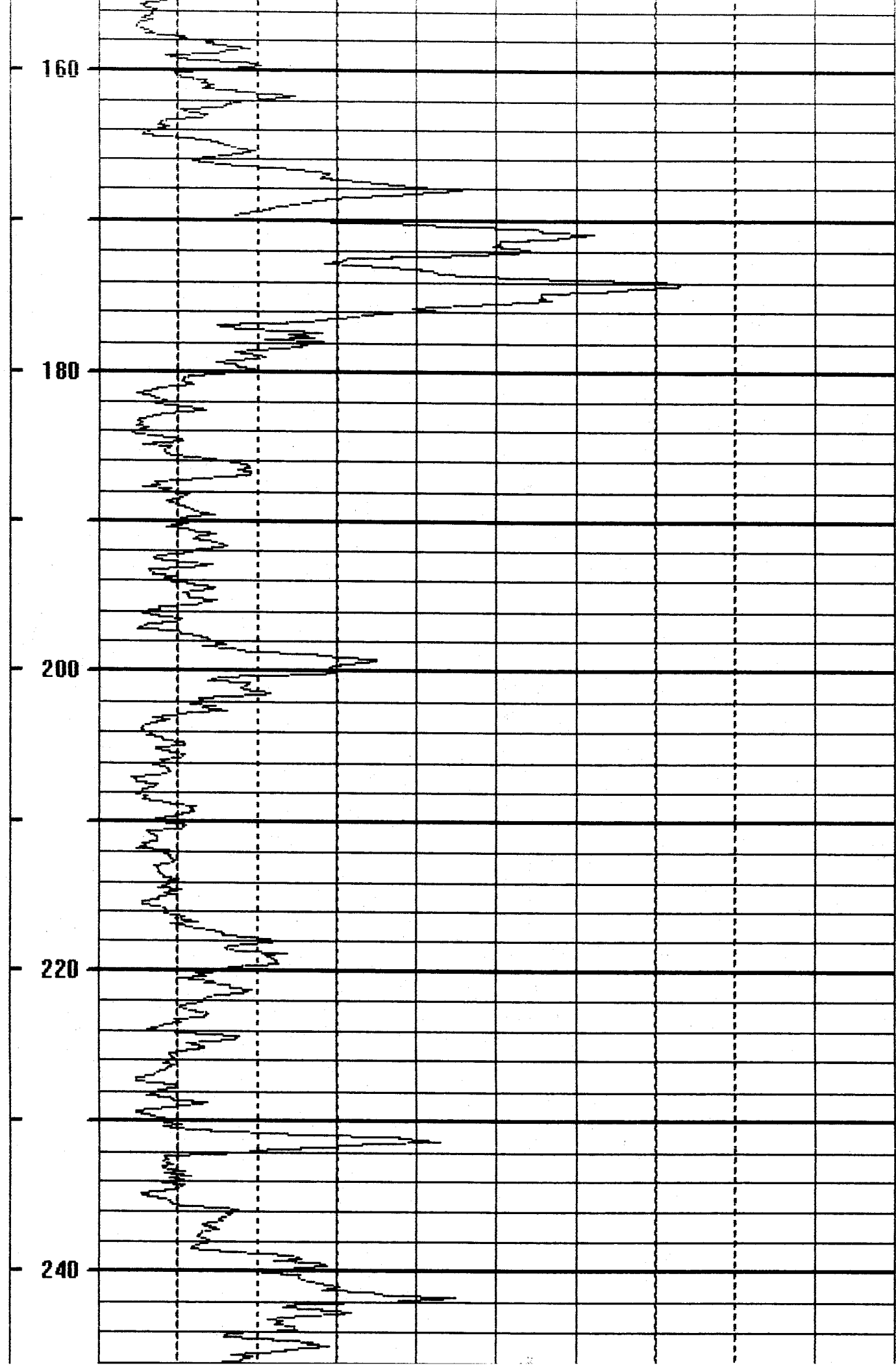


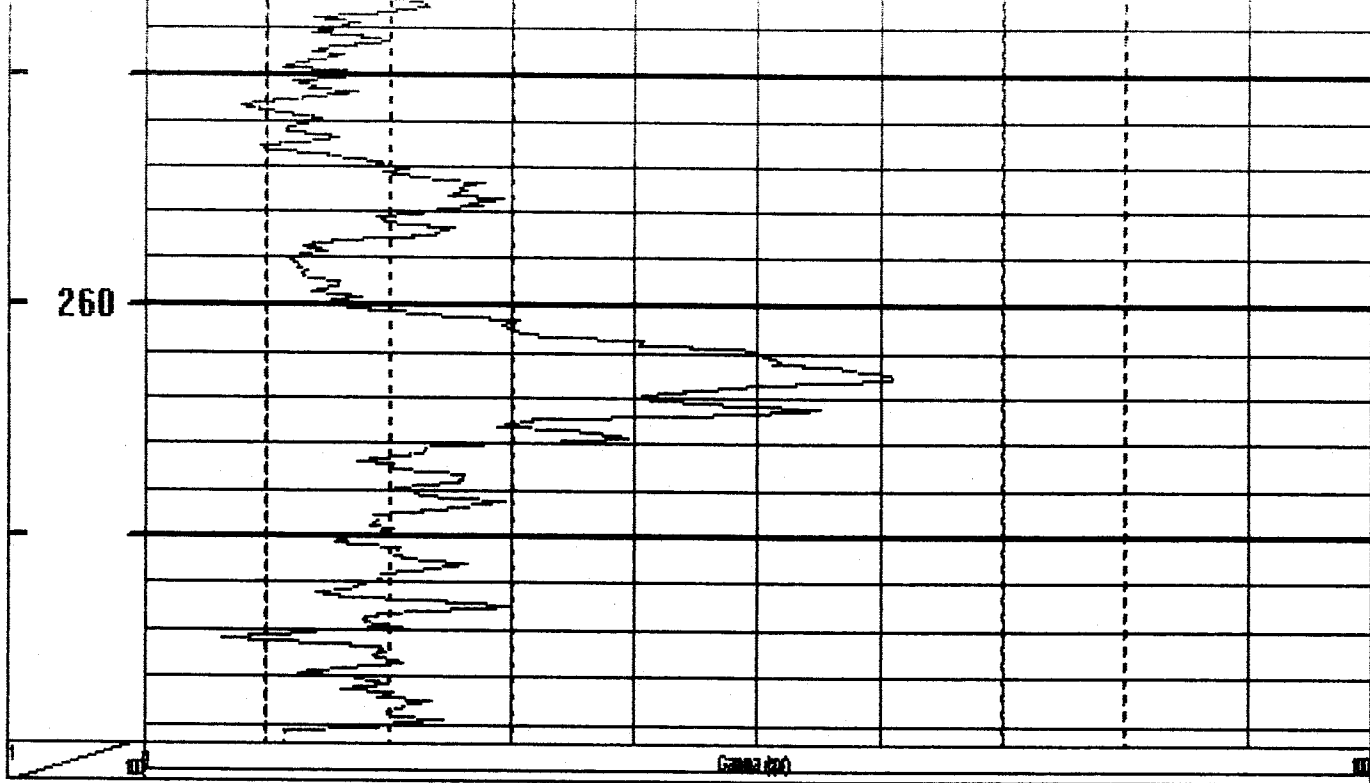


COMPANY: DELTA WELL & PUMP CO., INC.		Casing	
Location: NWRP BETHPAGE			
Well	BP-S1-TT-MM308	Depth Driller	
		Depth Logger	
Date	10/27/11	Est Fluid	
		Logged by:	orc
File Name	723	Witness:	J. FERGUSON



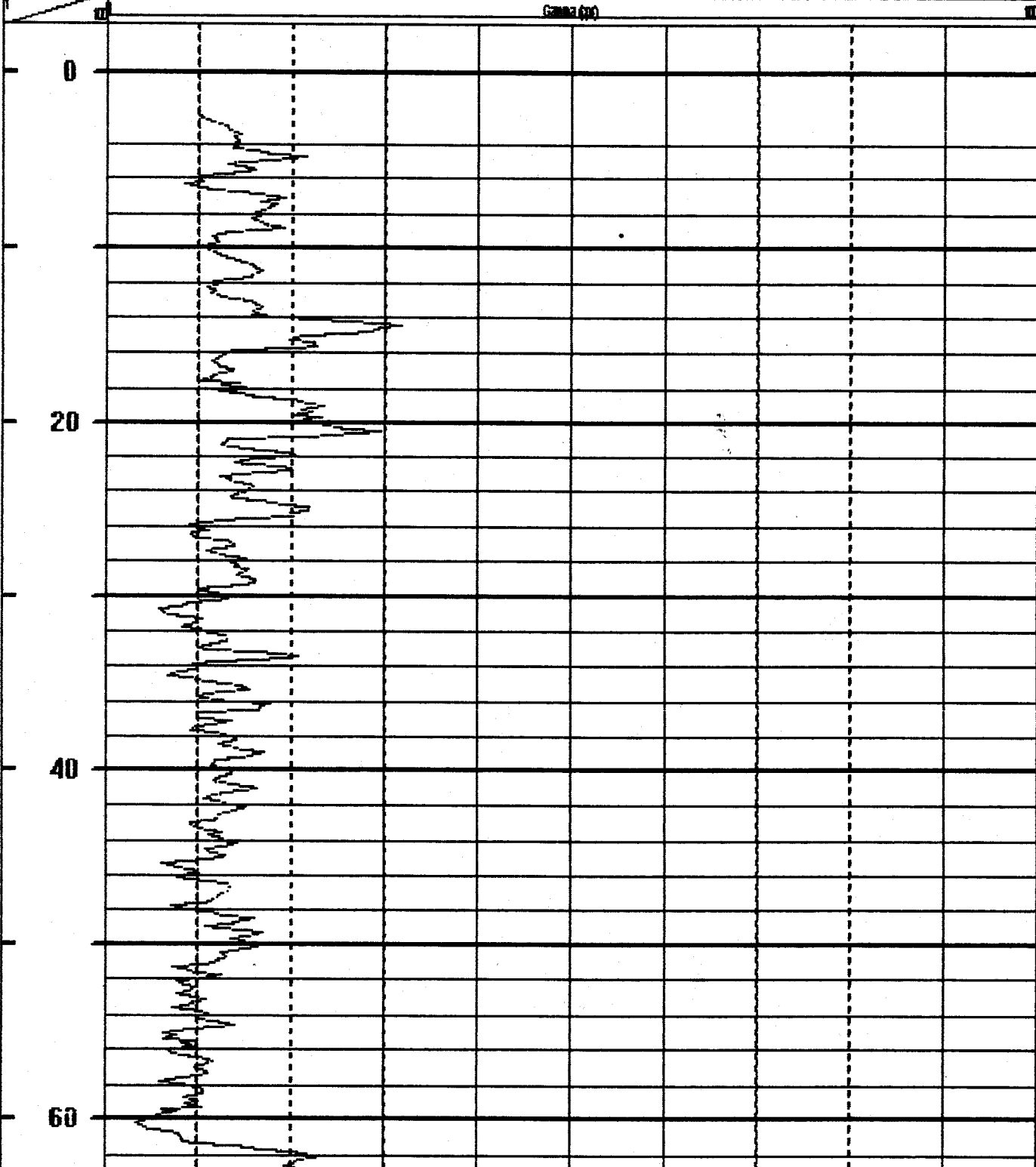


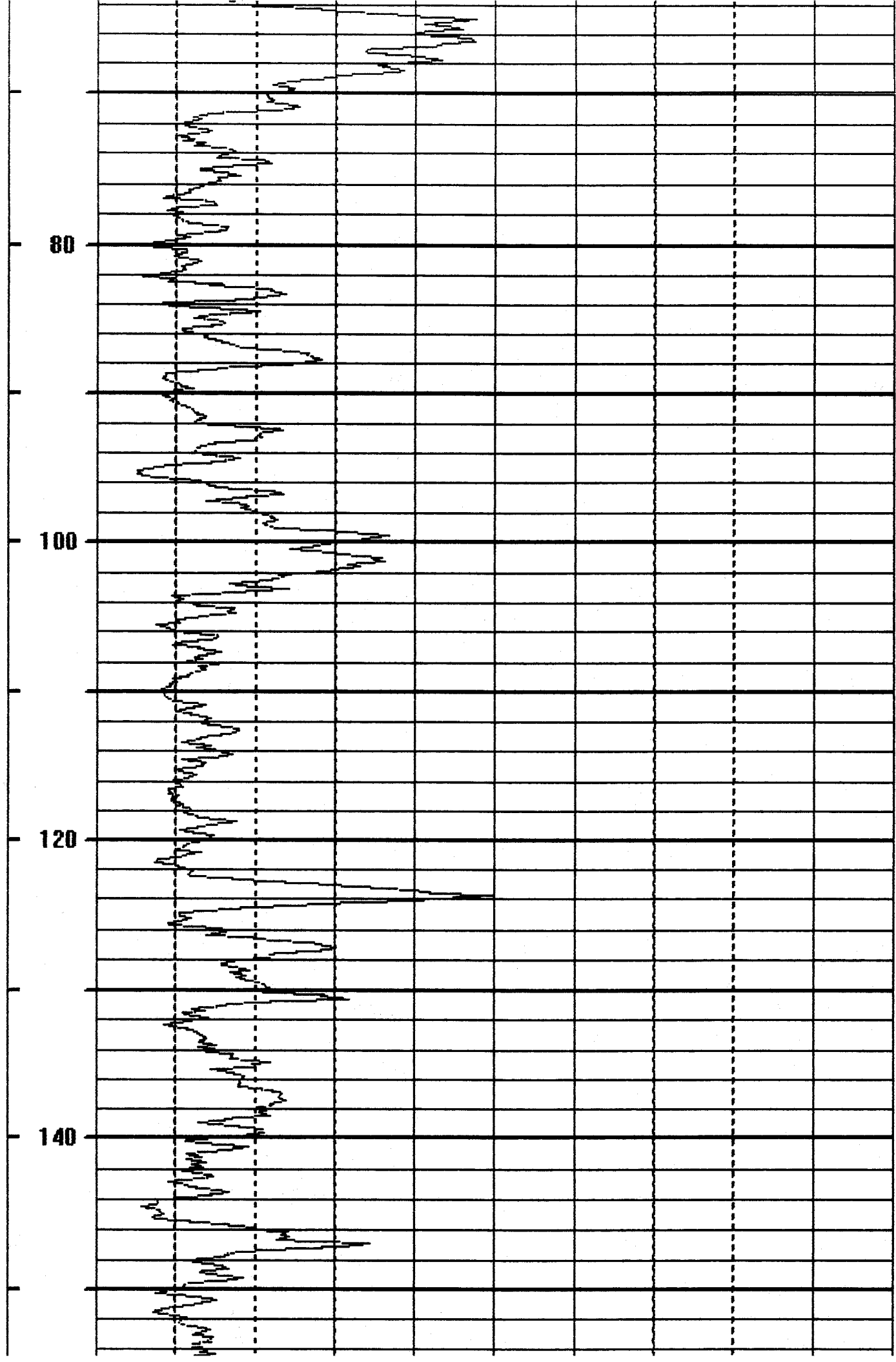


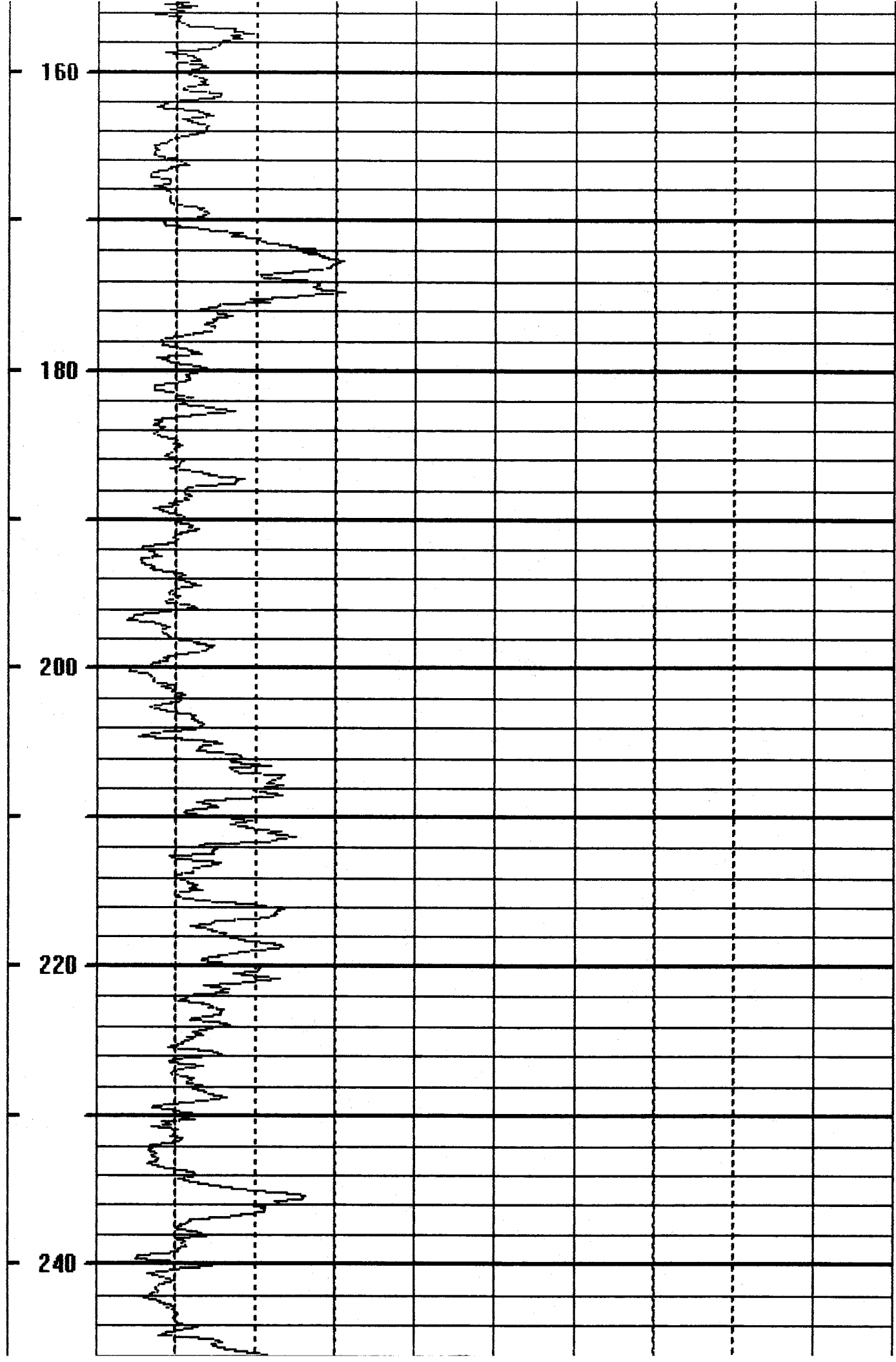


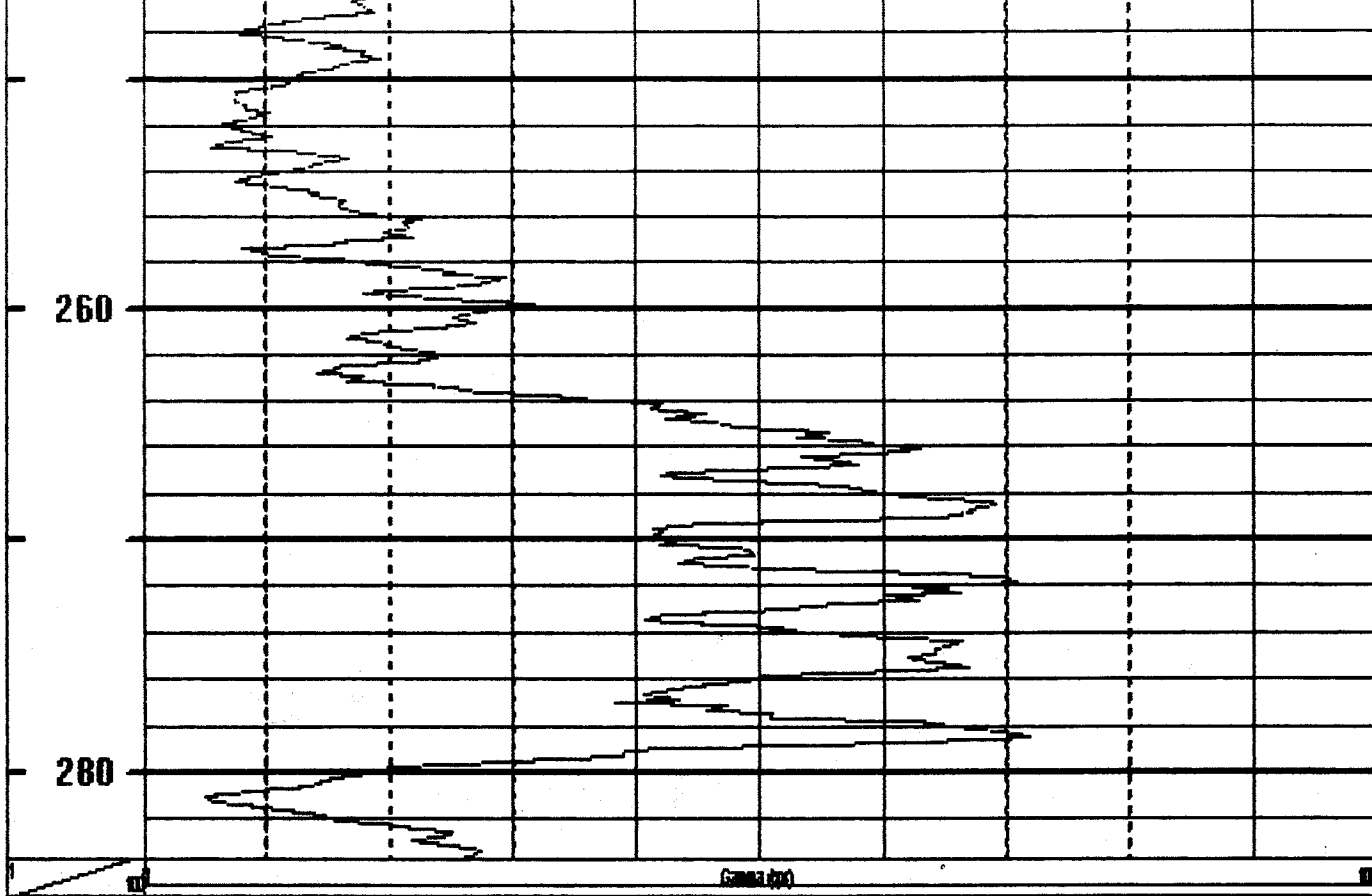
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COMPANY: DELTA WELL & PUMP CO., INC.				Casing
Location: NWRP BETPAGE				
Well	BPSI-TT-MW309		Depth Driller	
			Depth Logger	
Date	10/17/11	BH Fluid	Logged by:	erc
File Name	72		Witness:	J. FERGUSON









Date: Monday, October 07, 2014 Time: 12:27 File: C:\Documents and Settings\Wahid\My Documents\1717220\100313.dwg

Monitoring Well Construction Logs



OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-3055

Tetra Tech NUS, Inc.

PROJECT <u>BETHPAGE SITE 1 INVESTIGATION</u> PROJECT NO. <u>112602230</u> DATE BEGUN <u>November 22, 2011</u> FIELD GEOLOGIST <u>J. Ferguson</u> GROUND ELEVATION _____ DATUM _____	LOCATION <u>BETHPAGE New York</u> BORING <u>AP51-TFMW-3055</u> DATE COMPLETED <u>Nov 22 2011</u> DRILLER <u>J. Guerci</u> DRILLING METHOD <u>Williams Street Auger</u> DEVELOPMENT METHOD _____
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ACAD: FORM_MWSU.dwg 87/28/99 INL

ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2" Ø
TYPE OF RISER PIPE: Sch. 40 PVC

BOREHOLE DIAMETER: 2 1/4" Ø HSA

TYPE OF BACKFILL: LEAD (BENTONITE)
Cement (Portland) Grout

ELEVATION/DEPTH TOP OF SEAL: 34' 1

TYPE OF SEAL: BENTONITE Pellet Seal

DEPTH TOP OF SAND PACK: 38'

ELEVATION/DEPTH TOP OF SCREEN: 40' 1

TYPE OF SCREEN: PVC Sch. 40

SLOT SIZE x LENGTH: 0.010 Slot - 10'

I.D. OF SCREEN: 2"

TYPE OF SAND PACK: #1 SILICA SAND

ELEVATION/DEPTH BOTTOM OF SCREEN: 50' 1

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1

BACKFILL MATERIAL BELOW SAND: _____

ELEVATION/DEPTH OF HOLE: 50' 1



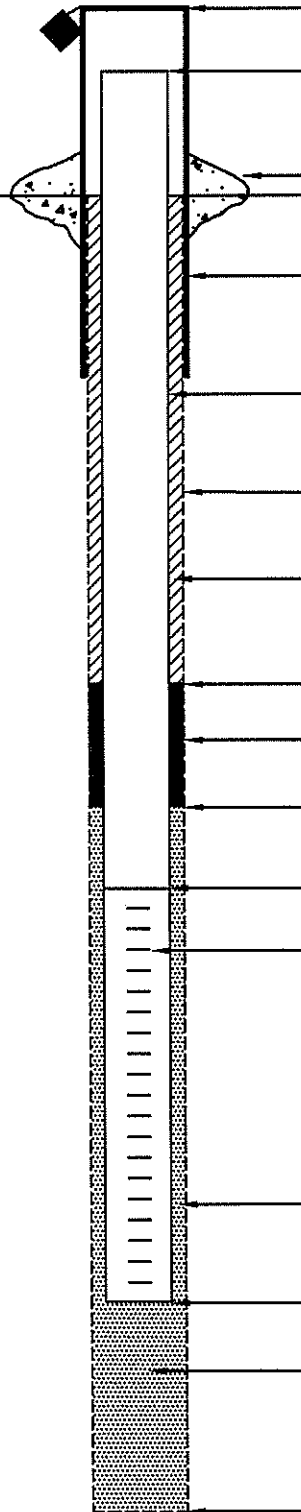
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-305 I

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>Site 1</u>	DRILLER <u>Jason Gucci</u>
PROJECT NO. <u>112602230</u>	BORING <u>MW-305 I</u>	DRILLING METHOD <u>HSA</u>
DATE BEGUN <u>11-28-11</u>	DATE COMPLETED <u>11-29-11</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>Vince Shickora</u>		
GROUND ELEVATION _____	DATUM _____	

ACAD:FORM_MWSU.dwg 07/20/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: /

ELEVATION/HEIGHT OF TOP OF RISER PIPE: /

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2 inch
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 8 inch

TYPE OF BACKFILL: Bentonite/Cement Grout
Cetera High Solids bentonite / Portland Cement

ELEVATION/DEPTH TOP OF SEAL: 1181'

TYPE OF SEAL: 3/8" Bentonite Holeplug

DEPTH TOP OF SAND PACK: 185'

ELEVATION/DEPTH TOP OF SCREEN: 1190'

TYPE OF SCREEN: schedule 40 PVC
SLOT SIZE x LENGTH: 0.01" x 10'
I.D. OF SCREEN: 2 inch

TYPE OF SAND PACK: #1 Silica Quartz

ELEVATION/DEPTH BOTTOM OF SCREEN: 1200'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1200'
BACKFILL MATERIAL BELOW SAND: Natural Formation material

ELEVATION/DEPTH OF HOLE: 1200'



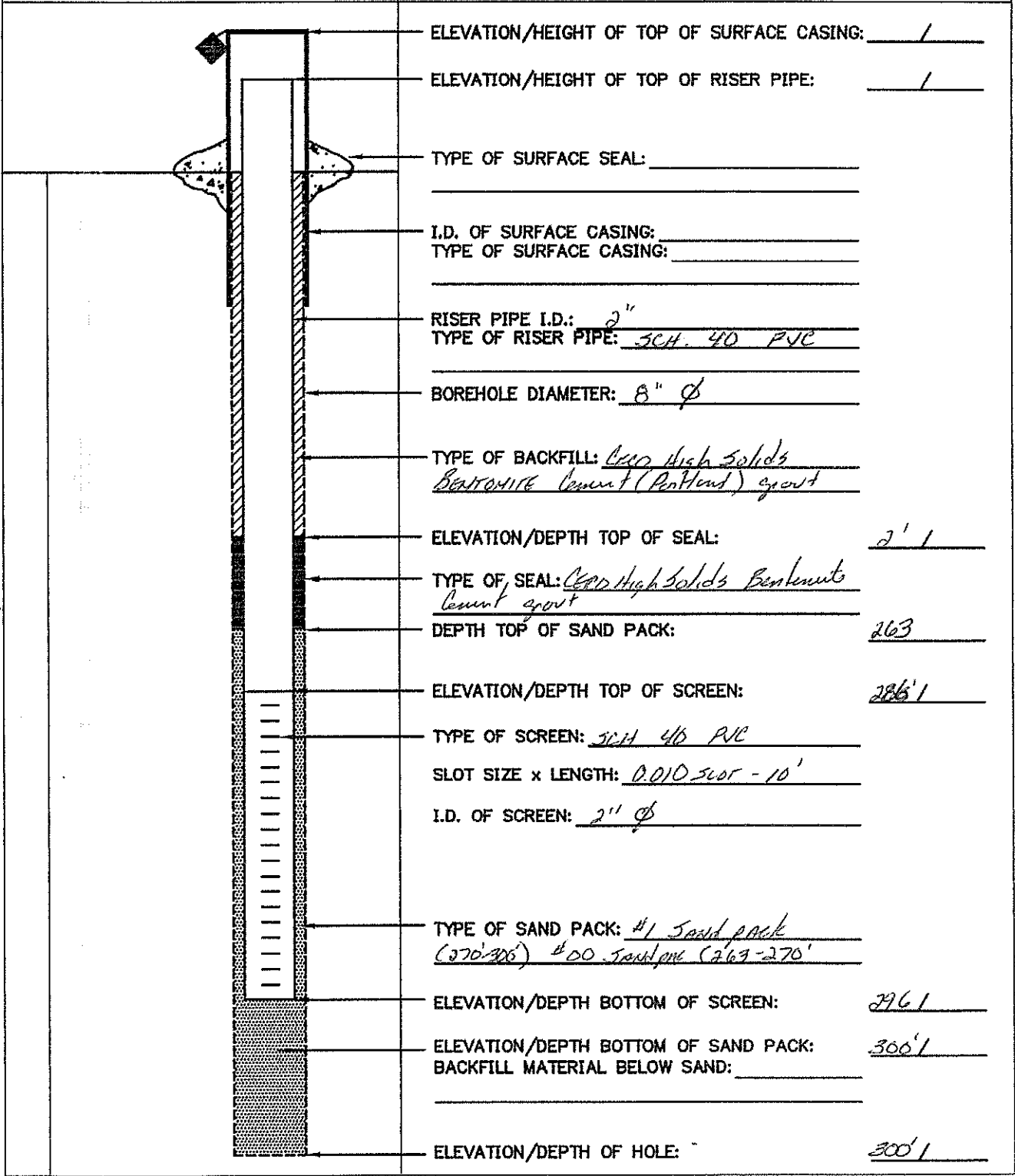
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-305D

PROJECT <u>11AG02230</u>	LOCATION <u>BETHPAGE New York</u>	DRILLER <u>MURPHY</u>
PROJECT NO. <u>BETHPAGE SITE 1 ENVEST.</u>	BORING <u>BPS1-TT-MW305D</u>	DRILLING METHOD <u>8" ϕ MUD Rotary</u>
DATE BEGUN <u>November 17, 2011</u>	DATE COMPLETED <u>November 21, 2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. Engstrom</u>	GROUND ELEVATION _____	DATUM _____

ACAD: FORM_MWSU.dwg 07/28/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2"
TYPE OF RISER PIPE: SCH. 40 PVC

BOREHOLE DIAMETER: 8" ϕ

TYPE OF BACKFILL: Lead High Solids
Bentonite Cement (Portland) grout

ELEVATION/DEPTH TOP OF SEAL: 2' 1

TYPE OF SEAL: Lead High Solids Bentonite
Cement grout

DEPTH TOP OF SAND PACK: 263

ELEVATION/DEPTH TOP OF SCREEN: 286' 1

TYPE OF SCREEN: SCH 40 PVC

SLOT SIZE x LENGTH: 0.010 slot - 10'

I.D. OF SCREEN: 2" ϕ

TYPE OF SAND PACK: #1 Sand pack
(270'-300') #00 Sand pack (263'-270')

ELEVATION/DEPTH BOTTOM OF SCREEN: 296' 1

ELEVATION/DEPTH BOTTOM OF SAND PACK: 300' 1
BACKFILL MATERIAL BELOW SAND: _____

ELEVATION/DEPTH OF HOLE: 300' 1



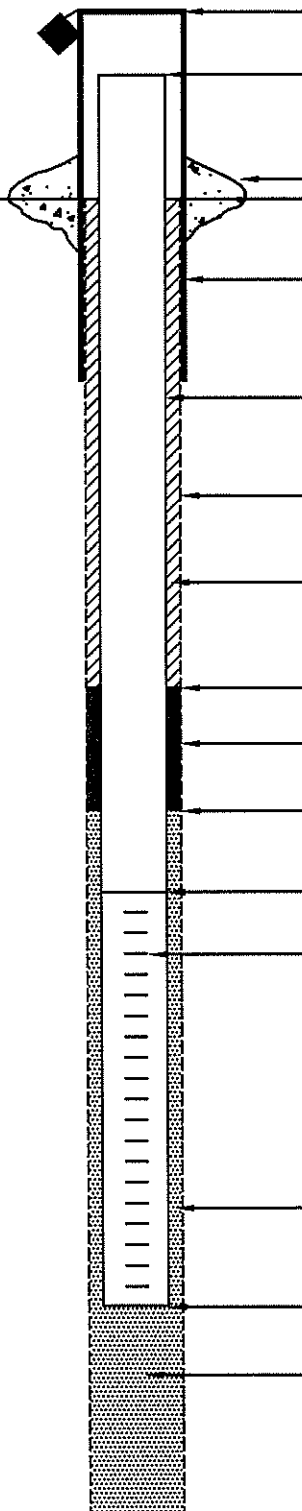
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-306\$

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>Site 1</u>	DRILLER <u>Jason Gucci</u>
PROJECT NO. <u>112602230</u>	BORING <u>MW-306\$</u>	DRILLING METHOD <u>HSA</u>
DATE BEGUN <u>12-8-11</u>	DATE COMPLETED <u>12-8-11</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>Vince Shickora</u>	DATUM _____	
GROUND ELEVATION _____		

ACAD:FORM_MWSU.dwg 07/20/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2 inch
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 8 inch

TYPE OF BACKFILL: Cetero High Solids Bentonite / Portland Cement

ELEVATION/DEPTH TOP OF SEAL: 141'

TYPE OF SEAL: 3/8" Bentonite Holeplug

DEPTH TOP OF SAND PACK: 46'

ELEVATION/DEPTH TOP OF SCREEN: 150'

TYPE OF SCREEN: schedule 40 PVC
SLOT SIZE x LENGTH: 0.01" x 10'
I.D. OF SCREEN: 2 inch

TYPE OF SAND PACK: #1 Silica Quartz

ELEVATION/DEPTH BOTTOM OF SCREEN: 160'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 160'
BACKFILL MATERIAL BELOW SAND: Natural Formation

ELEVATION/DEPTH OF HOLE: 160'



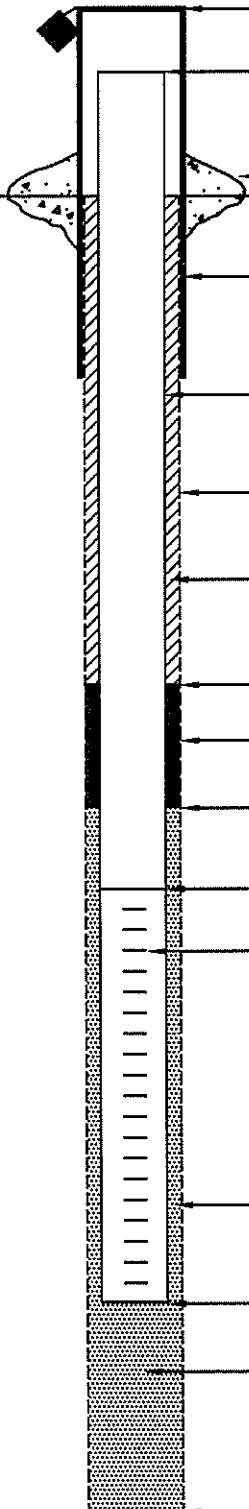
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-306I

PROJECT <u>NWIRP Both page</u>	LOCATION <u>Site 1</u>	DRILLER <u>Jason Gucci</u>
PROJECT NO. <u>112602230</u>	BORING <u>MW-306I</u>	DRILLING METHOD <u>HSA</u>
DATE BEGUN <u>12-6-11</u>	DATE COMPLETED _____	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>Vince Shickora</u>		
GROUND ELEVATION _____	DATUM _____	

ACAD:FORM_MWSU.dwg 07/20/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2 inch
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 8 inch

TYPE OF BACKFILL: Cetco High Solids
Bentonite/Portland Cement Grout

ELEVATION/DEPTH TOP OF SEAL: 1186'

TYPE OF SEAL: 3/8" Bentonite Holeplug

DEPTH TOP OF SAND PACK: 185'

ELEVATION/DEPTH TOP OF SCREEN: 1189'

TYPE OF SCREEN: Schedule 40 PVC
SLOT SIZE x LENGTH: 0.01" x 10'
I.D. OF SCREEN: 2 inch

TYPE OF SAND PACK: #1 Silica Quartz

ELEVATION/DEPTH BOTTOM OF SCREEN: 1199'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1199'
BACKFILL MATERIAL BELOW SAND: NATURAL FORMATION

ELEVATION/DEPTH OF HOLE: 1199'



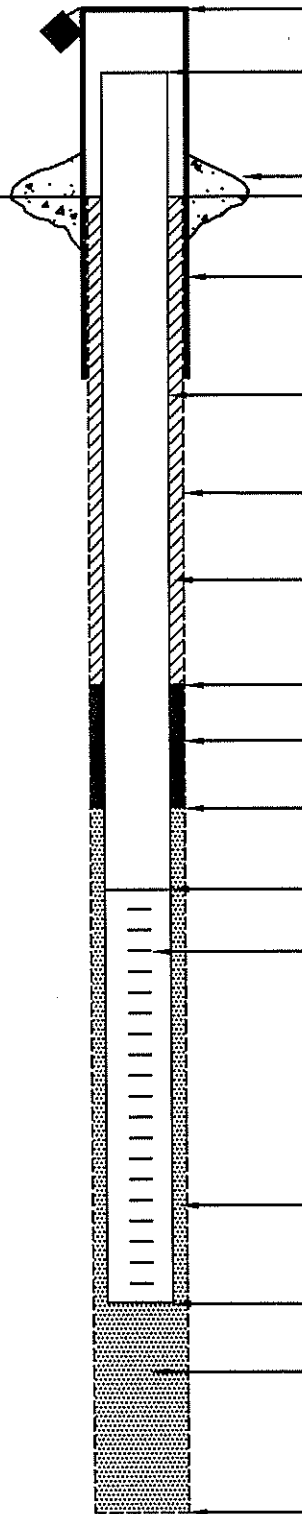
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-3060

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>Site 1</u>	DRILLER <u>Bill Murphy</u>
PROJECT NO. <u>112602230</u>	BORING <u>MW-3060</u>	DRILLING METHOD <u>Mod. Rotary</u>
DATE BEGUN <u>11-28-11</u>	DATE COMPLETED _____	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>Vince Shickora</u>		
GROUND ELEVATION _____	DATUM _____	

ACAD:FORM_MWSU.dwg 07/20/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2 inch
TYPE OF RISER PIPE: schedule 40 PVC

BOREHOLE DIAMETER: 8 inch

TYPE OF BACKFILL: Cetco High Solids Bentonite-Cement (Portland) Grout

ELEVATION/DEPTH TOP OF SEAL: 1

TYPE OF SEAL: Cetco High Solids Bentonite-Cement (Portland) Grout

DEPTH TOP OF SAND PACK: 270'

ELEVATION/DEPTH TOP OF SCREEN: 1284

TYPE OF SCREEN: schedule 40 PVC
SLOT SIZE x LENGTH: 0.01" x 10'
I.D. OF SCREEN: 2 inch

TYPE OF SAND PACK: #1 Silica Quartz to 279'
#00 Silica Quartz From 279' to 270' BGS

ELEVATION/DEPTH BOTTOM OF SCREEN: 1294'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1303'
BACKFILL MATERIAL BELOW SAND: NA

ELEVATION/DEPTH OF HOLE: 1303'



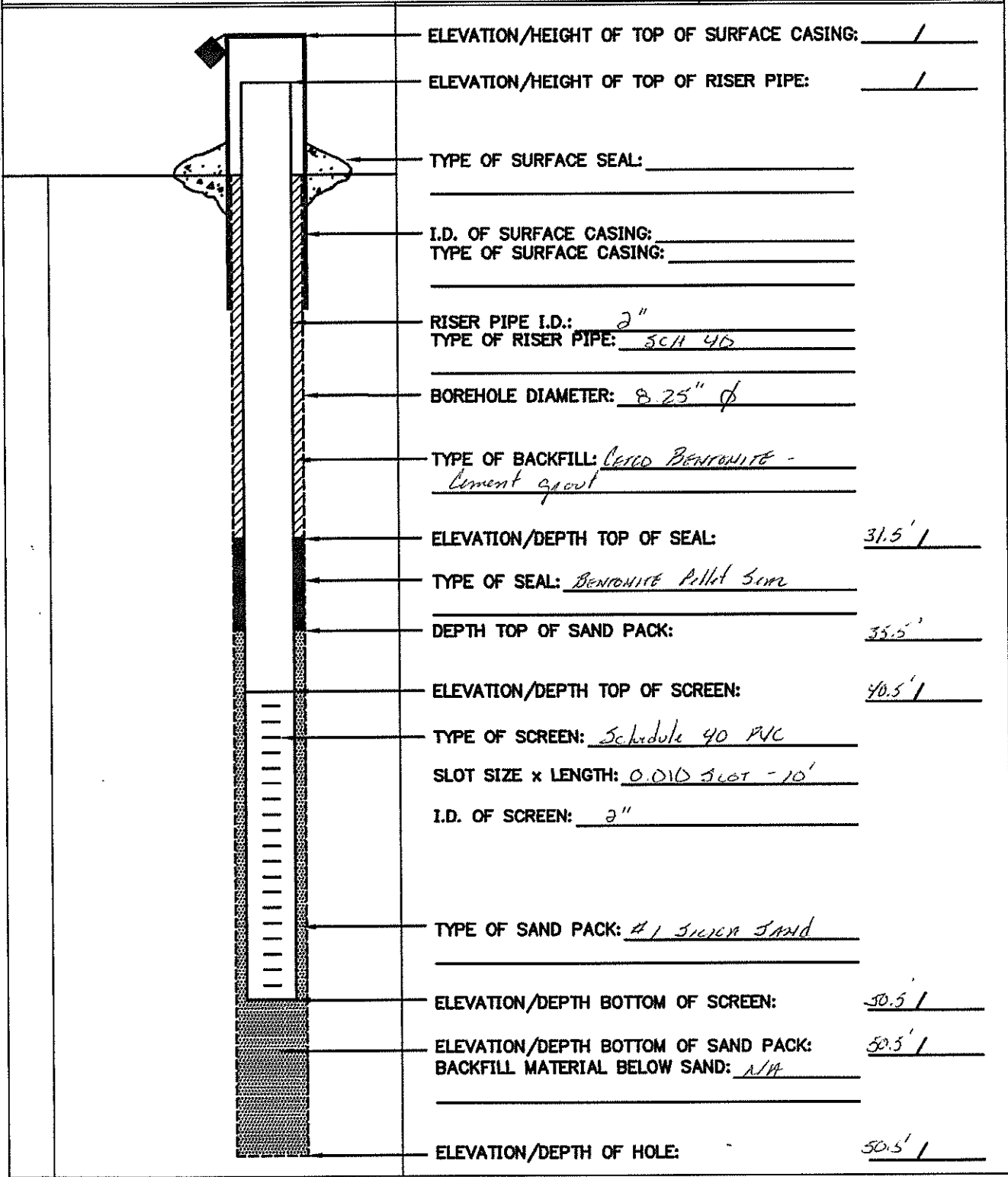
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-3075

PROJECT <u>BETHPAGE SITE 1 INVESTIGATION</u>	LOCATION <u>BETHPAGE New York</u>	DRILLER <u>GOARLT</u>
PROJECT NO. <u>112622230</u>	BORING <u>B31-T1-MW3075</u>	DRILLING METHOD <u>Howell Steam Drilling</u>
DATE BEGUN <u>November 21 2011</u>	DATE COMPLETED <u>November 11 2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. Ferguson</u>	DATUM _____	
GROUND ELEVATION _____		

ACAD: FORM_MWSU.dwg 07/20/99 INL





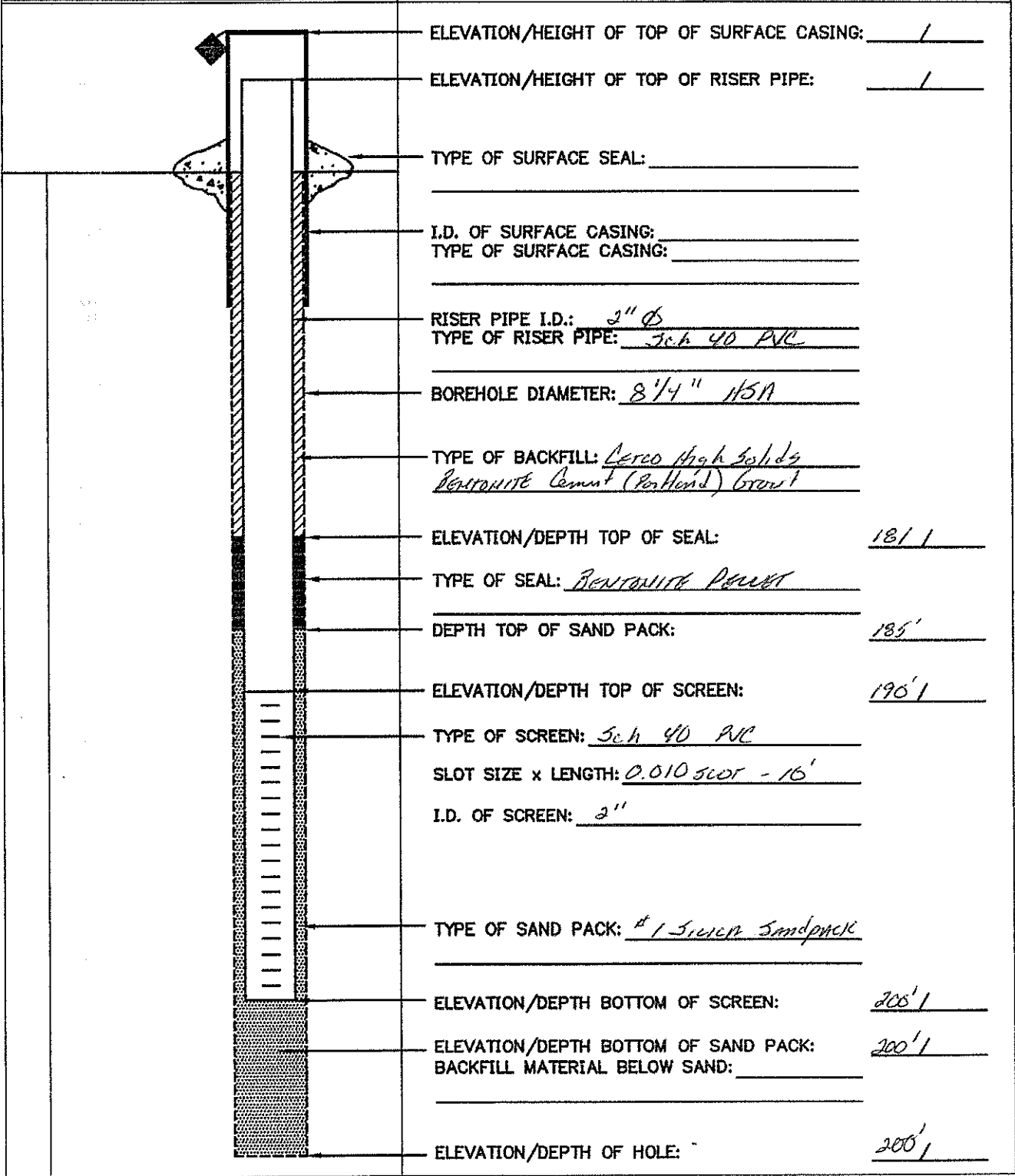
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-307-I

PROJECT <u>112602230</u>	LOCATION <u>BETHPAGE New York</u>	DRILLER <u>GUERCI</u>
PROJECT NO. <u>BETHPAGE SITE 1 INVEST</u>	BORING <u>8931-TT-MW307-I</u>	DRILLING METHOD <u>Hollow Stem Auger</u>
DATE BEGUN <u>November 17, 2011</u>	DATE COMPLETED <u>Nov 18, 2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. GREGG</u>	GROUND ELEVATION _____	DATUM _____

ACAD: FORM_MWSU.dwg 07/28/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2" Ø
TYPE OF RISER PIPE: Sch 40 PVC

BOREHOLE DIAMETER: 8 1/4" N5A

TYPE OF BACKFILL: Cerco High Solids
Bentonite Cement (Portland) Grout

ELEVATION/DEPTH TOP OF SEAL: 181'

TYPE OF SEAL: BENTONITE PEMENT

DEPTH TOP OF SAND PACK: 185'

ELEVATION/DEPTH TOP OF SCREEN: 190'

TYPE OF SCREEN: Sch 40 PVC
SLOT SIZE x LENGTH: 0.010 slot - 16'
I.D. OF SCREEN: 2"

TYPE OF SAND PACK: #1 SILVER SANDPACK

ELEVATION/DEPTH BOTTOM OF SCREEN: 205'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 200'
BACKFILL MATERIAL BELOW SAND: _____

ELEVATION/DEPTH OF HOLE: 200'



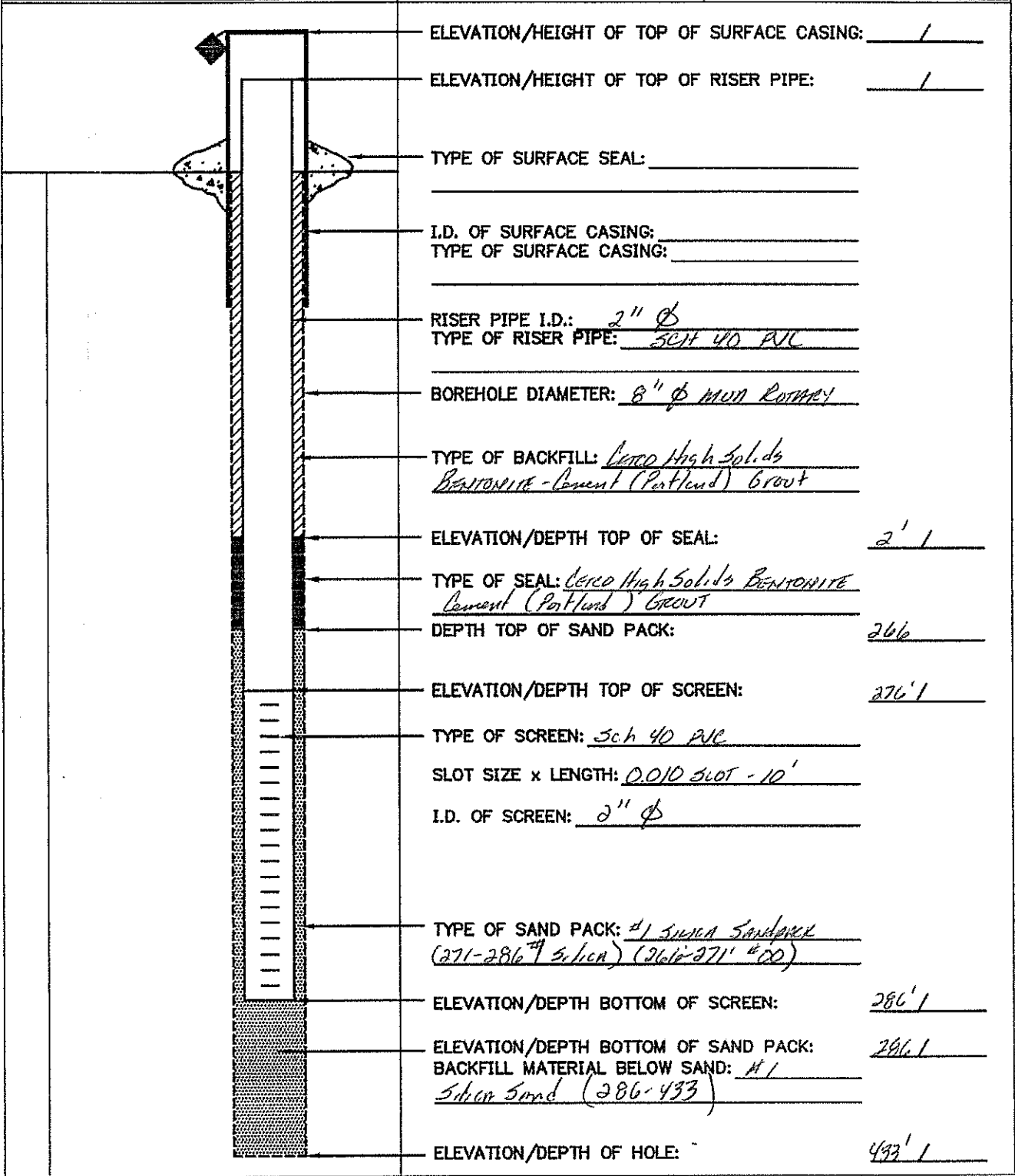
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-307D

PROJECT <u>BENHAPS SITE 1 INVEST.</u>	LOCATION <u>BENHAPS New York</u>	DRILLER <u>MUDPART</u>
PROJECT NO. <u>112608230</u>	BORING <u>BPT-11-MW307D</u>	DRILLING METHOD <u>MUD ROTARY</u>
DATE BEGUN <u>November 3, 2011</u>	DATE COMPLETED <u>Nov 11, 2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. FERGUSON</u>	DATUM _____	
GROUND ELEVATION _____		

ACAD: FORM_MWSU.dwg 07/28/99 INL





Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: BPS1-TT-MW3085

PROJECT <u>BETHPAGE SITE 1 INVEST.</u>	LOCATION <u>BPS1-TT-MW3085</u>	DRILLER <u>J. GUERCI</u>
PROJECT NO. <u>117602730</u>	BORING <u>MW-3085</u>	DRILLING METHOD <u>4 1/4" HSA</u>
DATE BEGUN <u>11-11-2011</u>	DATE COMPLETED <u>11-14-2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. FERGUSON</u>		
GROUND ELEVATION _____	DATUM _____	

ACAD: FORM_MWSU.dwg 07/20/99 INL

Diagram labels and data:

- ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1
- ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1
- TYPE OF SURFACE SEAL: _____
- I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____
- RISER PIPE I.D.: 2"
TYPE OF RISER PIPE: SCH. 40 PVC
- BOREHOLE DIAMETER: 8 1/4" Ø HSA
- TYPE OF BACKFILL: BENTONITE Cement Grout
(CEMENT HIGH SOLIDS BENTONITE)
- ELEVATION/DEPTH TOP OF SEAL: 48' 1
- TYPE OF SEAL: BENTONITE PELLETS
- DEPTH TOP OF SAND PACK: 50'
- ELEVATION/DEPTH TOP OF SCREEN: 54' 1
- TYPE OF SCREEN: SCH 40 PVC
- SLOT SIZE x LENGTH: 0.010 SLOT - 10'
- I.D. OF SCREEN: 2"
- TYPE OF SAND PACK: #1 SILICA
- ELEVATION/DEPTH BOTTOM OF SCREEN: 64' 1
- ELEVATION/DEPTH BOTTOM OF SAND PACK: 64' 1
- BACKFILL MATERIAL BELOW SAND: #1 SILICA
- ELEVATION/DEPTH OF HOLE: 64' 1



Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: BPS1-TT-MW308I

PROJECT <u>BETHPAGE SITE 1 INVEST.</u>	LOCATION <u>BPS1-TT-MW308I</u>	DRILLER <u>J. GUERCI</u>
PROJECT NO. <u>112600030</u>	BORING <u>MW-308I</u>	DRILLING METHOD <u>1 1/4" ϕ HSA</u>
DATE BEGUN <u>11-14-2011</u>	DATE COMPLETED <u>11-15-2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. FERGUSON</u>	DATUM _____	
GROUND ELEVATION _____		

ACAD:FORM_MWSU.dwg 07/20/99 INL

ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1
 ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1
 TYPE OF SURFACE SEAL: _____
 I.D. OF SURFACE CASING: _____
 TYPE OF SURFACE CASING: _____
 RISER PIPE I.D.: 2"
 TYPE OF RISER PIPE: SCHEDULE 40 PVC
 BOREHOLE DIAMETER: 8 1/4" ϕ HSA
 TYPE OF BACKFILL: BENTONITE - cement grout (LETO HIGH SOLIDS BENTONITE)
 ELEVATION/DEPTH TOP OF SEAL: 1461
 TYPE OF SEAL: BENTONITE PELLETS
 DEPTH TOP OF SAND PACK: 150
 ELEVATION/DEPTH TOP OF SCREEN: 1561
 TYPE OF SCREEN: 2" ϕ SCH 40, .010 SLOT
 SLOT SIZE x LENGTH: 0.010 SLOT - 10'
 I.D. OF SCREEN: 2"
 TYPE OF SAND PACK: #1 SILICA
 ELEVATION/DEPTH BOTTOM OF SCREEN: 1661
 ELEVATION/DEPTH BOTTOM OF SAND PACK: 1661
 BACKFILL MATERIAL BELOW SAND: #1 SILICA
 ELEVATION/DEPTH OF HOLE: 1



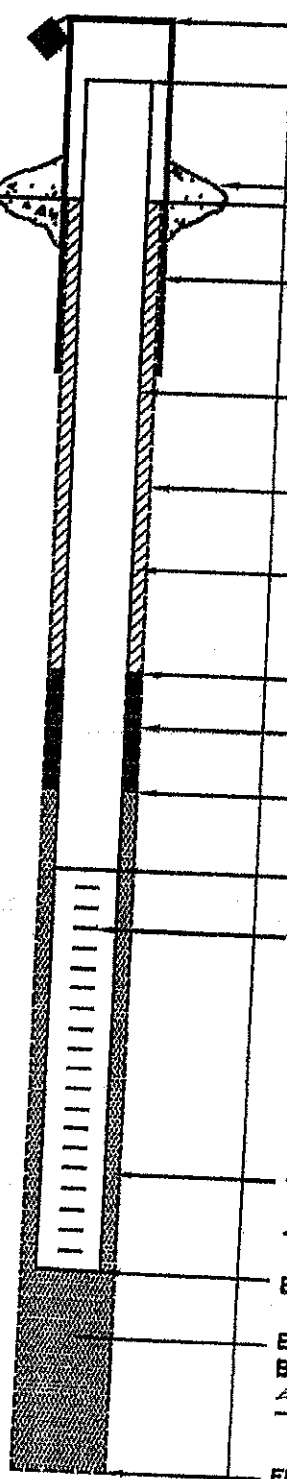
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: MW-308D

PROJECT <u>BENTONITE SEAL / TREATMENT</u>	LOCATION <u>BENTONITE NY</u>	DRILLER <u>B. MURPHY</u>
PROJECT NO. <u>1760223D</u>	BORING <u>SP5: TT-MW308D</u>	DRILLING METHOD <u>Mod Rotary</u>
DATE BEGUN <u>Apr 26, 2011</u>	DATE COMPLETED <u>Completed 31, 2011</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. KIRKMAN</u>	GROUND ELEVATION _____	DATUM _____

ACAD: FORM_MWSU.dwg 07/20/99 INL



ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 1

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1

TYPE OF SURFACE SEAL: _____

I.D. OF SURFACE CASING: _____
TYPE OF SURFACE CASING: _____

RISER PIPE I.D.: 2" Ø
TYPE OF RISER PIPE: SCH 40 PVC

BOREHOLE DIAMETER: 2" Ø

TYPE OF BACKFILL: Cement High Solids Bentonite
Cement (Per Head) Grout.

ELEVATION/DEPTH TOP OF SEAL: 241.1

TYPE OF SEAL: BENTONITE PELLET

DEPTH TOP OF SAND PACK: 243

ELEVATION/DEPTH TOP OF SCREEN: 250.1

TYPE OF SCREEN: SCH. 40 PVC

SLOT SIZE x LENGTH: 0.010 5/8" - 10'

I.D. OF SCREEN: 2" Ø

TYPE OF SAND PACK: 5/16" Sandpack
(#1 Sand 243-262)

ELEVATION/DEPTH BOTTOM OF SCREEN: 260.1

ELEVATION/DEPTH BOTTOM OF SAND PACK: 267.1

BACKFILL MATERIAL BELOW SAND: 1/2" Sand (267.1-283')
Bentonite (267.1-266')

ELEVATION/DEPTH OF HOLE: 283.1



Tetra Tech NUS, Inc.

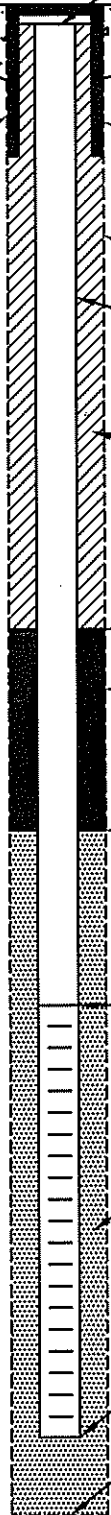
OVERBURDEN MONITORING WELL SHEET FLUSH - MOUNT

WELL NO.: BPSI-MW309\$

PROJECT <u>NWRP Bethpage Site</u>	LOCATION <u>MW309\$</u>	DRILLER <u>J. Gucci</u>
PROJECT NO. <u>112602230</u>	BORING <u>BPSI-MW309\$</u>	DRILLING METHOD <u>HSA</u>
DATE BEGUN <u>11-9-11</u>	DATE COMPLETED _____	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. Birkett</u>	GROUND ELEVATION _____	DATUM _____

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FLUSH MOUNT
SURFACE CASING
WITH LOCK



ELEVATION TOP OF RISER: _____

TYPE OF SURFACE SEAL: _____

TYPE OF PROTECTIVE CASING: _____

I.D. OF PROTECTIVE CASING: _____

DIAMETER OF HOLE: 8"

TYPE OF RISER PIPE: Schedule 40 PVC

RISER PIPE I.D.: 2"

TYPE OF BACKFILL/SEAL: Bentonite grout w/ some cement

ELEVATION/DEPTH TOP OF SEAL: 144.5'

TYPE OF SEAL: Hydrated bentonite pellets
Cetco Coated tablets 1/4"

ELEVATION/DEPTH TOP OF SAND: 149'

ELEVATION/DEPTH TOP OF SCREEN: 2" 153'

TYPE OF SCREEN: Schedule 40 PVC

SLOT SIZE x LENGTH: 0.010" x 10'

TYPE OF SAND PACK: #1 Silica sand
Filpro Superior Quartz Filtration Media

~~DIAMETER OF HOLE IN BEDROCK: _____~~

ELEVATION / DEPTH BOTTOM OF SCREEN: 163'

ELEVATION / DEPTH BOTTOM OF SAND: 163'

ELEVATION/DEPTH BOTTOM OF HOLE: 163'

BACKFILL MATERIAL BELOW SAND: 63'



OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: BPSI-MW309 I

Tetra Tech NUS, Inc.

PROJECT <u>NWIRP Bethpage</u>	LOCATION <u>MW309</u>	DRILLER <u>Jason Gucci</u>
PROJECT NO. <u>112602230</u>	BORING <u>BPSI-MW309 I</u>	DRILLING METHOD <u>HSA</u>
DATE BEGUN <u>11-8-11</u>	DATE COMPLETED <u>11-8-11</u>	DEVELOPMENT METHOD _____
FIELD GEOLOGIST <u>J. Birkett</u>	DATUM _____	
GROUND ELEVATION _____		

ACAD:FORM_MWSU.dwg 07/20/99 INL

ELEVATION/HEIGHT OF TOP OF SURFACE CASING: _____ / _____
 ELEVATION/HEIGHT OF TOP OF RISER PIPE: _____ / _____
 TYPE OF SURFACE SEAL: _____
 I.D. OF SURFACE CASING: _____
 TYPE OF SURFACE CASING: _____
 RISER PIPE I.D.: 2"
 TYPE OF RISER PIPE: Schedule 40 PVC
 BOREHOLE DIAMETER: 8"
 TYPE OF BACKFILL: Cement bentonite grout to 50' bgs ground
 ELEVATION/DEPTH TOP OF SEAL: _____ / 152
 TYPE OF SEAL: Hydrated Bentonite pellets
Catca coated tablets (1/4")
 DEPTH TOP OF SAND PACK: _____ / 156
 ELEVATION/DEPTH TOP OF SCREEN: _____ / 160
 TYPE OF SCREEN: Schedule 40 PVC
 SLOT SIZE x LENGTH: 10 slot^(0.010") x 10' long
 I.D. OF SCREEN: 2"
 TYPE OF SAND PACK: #1 Silica Sand
Filpro Superior Quartz Filtration Media
 ELEVATION/DEPTH BOTTOM OF SCREEN: _____ / 170
 ELEVATION/DEPTH BOTTOM OF SAND PACK: _____ / 170
 BACKFILL MATERIAL BELOW SAND: _____
 ELEVATION/DEPTH OF HOLE: _____ / 170



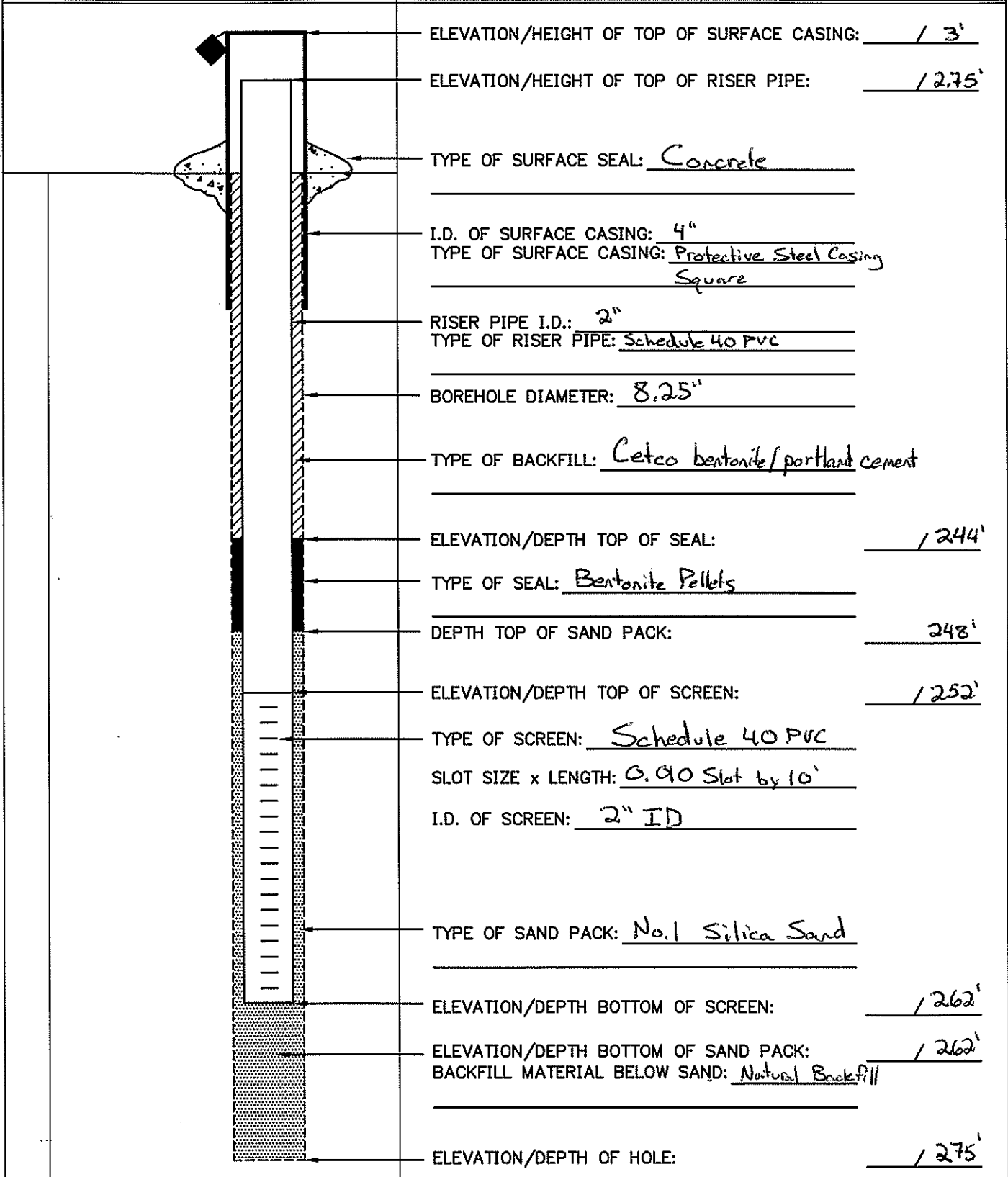
Tetra Tech NUS, Inc.

OVERBURDEN MONITORING WELL SHEET STICK-UP

WELL NO.: BPSI-TT-MW309D

PROJECT <u>Bethpage Site Investigation</u>	LOCATION <u>Bethpage New York</u>	DRILLER <u>B. Murphy</u>
PROJECT NO. <u>112602230</u>	BORING <u>BPSI-TT-MW309D</u>	DRILLING METHOD <u>Mud Rotary</u>
DATE BEGUN _____	DATE COMPLETED <u>Nov. 10, 2012</u>	DEVELOPMENT METHOD <u>Air Lift and Ground Feis</u>
FIELD GEOLOGIST <u>J. Ferguson</u>	DATUM _____	
GROUND ELEVATION _____		

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ELEVATION/HEIGHT OF TOP OF SURFACE CASING: 13'

ELEVATION/HEIGHT OF TOP OF RISER PIPE: 1275'

TYPE OF SURFACE SEAL: Concrete

I.D. OF SURFACE CASING: 4"
TYPE OF SURFACE CASING: Protective Steel Casing Square

RISER PIPE I.D.: 2"
TYPE OF RISER PIPE: Schedule 40 PVC

BOREHOLE DIAMETER: 8.25"

TYPE OF BACKFILL: Cetco bentonite/portland cement

ELEVATION/DEPTH TOP OF SEAL: 1244'

TYPE OF SEAL: Bentonite Pellets

DEPTH TOP OF SAND PACK: 248'

ELEVATION/DEPTH TOP OF SCREEN: 1252'

TYPE OF SCREEN: Schedule 40 PVC
SLOT SIZE x LENGTH: 0.90 Slot by 10'
I.D. OF SCREEN: 2" ID

TYPE OF SAND PACK: No. 1 Silica Sand

ELEVATION/DEPTH BOTTOM OF SCREEN: 1262'

ELEVATION/DEPTH BOTTOM OF SAND PACK: 1262'
BACKFILL MATERIAL BELOW SAND: Natural Backfill

ELEVATION/DEPTH OF HOLE: 1275'

Monitoring Well Development Records



MONITORING WELL DEVELOPMENT RECORD

Well: BP-MW-305S Depth to Bottom (ft.): 50.3' Responsible Personnel: J. Ferguson
 Site: Bethpage Site 1 Static Water Level Before (ft.): 43.14' Drilling Co.: Delta Drilling
 Date Installed: 11/12/2011 Static Water Level After (ft.): 43.13' Project Name: Bethpage Site 1
 Date Developed: 12/08/2011 Screen Length (ft.): 10' Project Number: 112G02230
 Dev. Method: Airlift/submersible Specific Capacity: Not determined
 Pump Type: centrifugal Casing ID (in.): 2" ID

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below grnd)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
10:45	2	0	43.14'	15.34	5.86	0.119	>1000	Airlift, gray, turbid.
11:00	0	500		15.56	5.38	0.097	363	Airlift, gray, turbid.
11:15	0	1000		15.54	5.53	0.097	72.5	Airlift, gray, turbid.
11:30	0	1500		15.16	5.30	0.095	35	clear
11:45	0	2000	↓	15.12	5.28	0.094	37	clear
12:00	0	---	43.15'	15.79	5.50	0.074	162	





MONITORING WELL DEVELOPMENT RECORD

Well: BP-MW-3061 Depth to Bottom (ft.): 199' Responsible Personnel: J. Ferguson
 Site: Bethpage Site 1 Static Water Level Before (ft.): 47.5' Drilling Co.: Delta Drilling
 Date Installed: 12/05-06/2011 Static Water Level After (ft.): 47.57' Project Name: Bethpage Site 1
 Date Developed: 12/09/2011 Screen Length (ft.): 10' Project Number: 112G02230
 Dev. Method: Airlift/Submersible Specific Capacity: Not determined
 Pump Type: centrifugal Casing ID (in.): 2" ID

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below grnd)	Temperature (Degrees C)	pH	Specific Conductance (Units mS/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
8:30	0.5'	0	47.5'	17.13	6.07	0.181	549	Airlift -Lt. brown-brown.
9:00				17.33	5.67	0.172	38.9	Clear
9:30				16.87	5.16	0.167	31.8	
10:00				16.89	4.97	0.165	30.4	
10:30				16.89	4.97	0.164	30.2	
11:00				16.92	4.97	0.164	29.5	
11:30	↓	↓		16.92	4.96	0.163	28.6	
12:00	0	1150	47.57'	16.91	4.98	0.163	28.4	↓





MONITORING WELL DEVELOPMENT RECORD

Well: BPS1-TT-MW309D Depth to Bottom (ft.): 267 Responsible Personnel: John Stephens/Kristi Francisco
 Site: Side 1 Static Water Level Before (ft.): 55' Drilling Co.: Delta
 Date Installed: _____ Static Water Level After (ft.): 56' Project Name: PCB Investigation
 Date Developed: 11/28-11/29 Screen Length (ft.): 10 Project Number: 112602230
 Dev. Method: Drift Pump Specific Capacity: _____
 Pump Type: Grundfos Casing ID (in.): 2

11/28/11 - Development begins at 1310 to 1515
 11/29/11 - Development re-begins at 1055

Time	Estimated Sediment Thickness (Ft.)	Cumulative Water Volume (Gal.)	Water Level Readings (Ft. below TOC)	Temperature (Degrees C)	pH	Specific Conductance (Units/cm)	Turbidity (NTU)	Remarks (odor, color, etc.)
1350		800	60.34	16.65	5.18	0.416	0.26	7.65 232 -clear
1355		830	60.34	16.65	5.42	0.276	0.00	6.24 211 -clear
1410		860	60.34	16.54	5.39	0.253	0.00	7.41 215
1415		870	60.34	16.47	5.39	0.231	0.00	6.55 219
1420		880	60.34	16.48	5.37	0.230	0.00	6.71 217
1425		890	60.34	16.47	5.34	0.231	0.00	6.62 217
1430		900	60.34	16.48	5.31	0.228	0.00	6.68 219
1435		910	60.34	16.45	5.31	0.223	0.00	6.65 220
1440		920	60.34	16.44	5.31	0.225	0.00	6.71 221

1400

DO ORP

Groundwater Sample and Low Flow Purge Logsheets



Project Site Name:	NWIRP Bethpage Site 1	Sample ID No.:	BPS1-FWMW01 - 01192012
Project No.:	112G02230	Sample Location:	BPS1-FWMW01
<input type="checkbox"/> Domestic Well Data		Sampled By:	VAS
<input checked="" type="checkbox"/> Monitoring Well Data		C.O.C. No.:	
<input type="checkbox"/> Other Well Type:		Type of Sample:	<input checked="" type="checkbox"/> Low Concentration
<input type="checkbox"/> QA Sample Type:			<input type="checkbox"/> High Concentration

SAMPLING DATA:

Date:	1-19-12	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	0930	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method: Low Flow - Grundfos	clear	7.08	0.461	13.93	8.9	6.71	-		248

PURGE DATA:

Date:	1-19-12	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos									
Monitor Reading (ppm):	0.0								
Well Casing Diameter & Material									
Type:	2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):									
Static Water Level (WL):	52.30								
One Casing Volume(gal/L):	--								
Start Purge (hrs):	0830								
End Purge (hrs):	0930								
Total Purge Time (min):	60								
Total Vol. Purged (gal):	6.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	3
PCBs	--	2 1-L amber glass vials	2
Hexavalent Chromium	--	1 250-mL plastic bottle	-
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	-
TOC	H2SO4	3 40-mL amber glass vials	-

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit result → 0.01 mg/L

Circle If Applicable:

MS/MSD

-

Duplicate ID No.:

-

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-FW-MW01
DATE: 1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0820	52.30									
0830	52.32	400	6.64	0.383	205	8.46	12.68	217	-	cloudy (Brown)
0835	52.32	400	7.21	0.430	254	7.14	13.92	213	-	" "
0840	52.32	400	7.35	0.420	198	6.77	14.00	222	-	" "
0845	52.32	400	6.89	0.429	147	6.58	14.36	256	-	Tinted (Tan)
0850	52.32	400	6.88	0.434	90.7	6.70	14.48	288	-	" "
0855	52.32	400	6.40	0.442	71.4	6.71	14.40	259	-	" "
0900	52.32	400	6.49	0.444	57.6	6.75	14.29	265	-	" "
0905	52.32	400	6.87	0.449	48.3	6.80	14.17	272	-	" "
0910	52.32	400	6.96	0.451	39.7	6.67	14.08	270	-	" "
0915	52.32	400	7.00	0.454	30.0	6.72	14.01	265	-	slight tint (tan)
0920	52.32	400	7.05	0.459	19.4	6.75	13.97	256	-	clear
0925	52.32	400	7.07	0.460	11.0	6.73	13.95	252	-	clear
0930	52.32	400	7.08	0.461	8.9	6.71	13.93	248	-	clear-collected sample

SIGNATURE(S): [Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-FW-MW02-01172012
 Project No.: 112G02230 Sample Location: BPS1-FW-MW02
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-17-12</u>	<u>Clear</u>	<u>6.97</u>	<u>0.463</u>	<u>15.86</u>	<u>6.8</u>	<u>7.05</u>	<u>-</u>	<u>208</u>
Time: <u>1515</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-17-12</u>								
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>64'</u>								
Static Water Level (WL): <u>52.78'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1415</u>								
End Purge (hrs): <u>1515</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal/L): <u>5.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
Hexavalent Chromium Test Kit result → 0.01 mg/L

Circle if Applicable: _____ Signature(s): [Signature]

MS/MSD <u>-</u>	Duplicate ID No.: <u>-</u>
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-FW-MW02
 DATE: 1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
1405	52.78	-	-	-	-	-	-	-	-	Initial
1415	52.79	350	6.85	0.447	226	8.98	14.67	231	-	cloudy (Brown)
1420	52.79	350	7.04	0.406	190	8.89	15.01	220	-	slightly cloudy (Brown)
1425	52.79	350	7.02	0.407	174	8.37	15.36	216	-	" " "
1430	52.79	350	7.03	0.410	156	8.04	15.47	209	-	" " "
1435	52.79	350	7.03	0.413	92.3	7.59	15.66	202	-	Tinted (Brown)
1440	52.79	350	7.02	0.413	46.5	7.63	15.69	203	-	slight tint (Tea)
1445	52.79	350	7.01	0.411	29.2	7.58	15.72	204	-	" " "
1450	52.79	350	7.01	0.410	21.3	7.40	15.75	204	-	clear
1455	52.79	350	7.00	0.409	17.0	7.32	15.77	205	-	clear
1500	52.79	350	6.99	0.407	13.1	7.20	15.80	204	-	clear
1505	52.79	350	6.98	0.406	11.0	7.14	15.83	205	-	clear
1510	52.79	350	6.98	0.404	9.2	7.11	15.84	207	-	clear
1515	52.79	350	6.97	0.403	6.8	7.05	15.86	208	-	clear - collect sample

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-FW-MW03 - 01192012
 Project No.: 112G02230 Sample Location: BPS1-FW-MW03
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-19-12</u>	<u>clear</u>	<u>6.28</u>	<u>0.182</u>	<u>15.30</u>	<u>3.1</u>	<u>8.90</u>	<u>-</u>	<u>229</u>

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-19-12</u>								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>51.43</u>								
One Casing Volume(gal/L): --								
Start Purge (hrs): <u>1010</u>								
End Purge (hrs): <u>1110</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit result → 0.01 mg/L

Circle if Applicable: _____ Signature(s):

MS/MSD <u>-</u>	Duplicate ID No.: <u>-</u>
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPS1-FW-MW03
1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1000	51.43	-	-	-	-	-	-	-	-	Initial
1010	51.45	400	5.13	0.203	246	10.17	13.52	306	-	cloudy (Brown)
1015	51.45	400	4.88	0.199	221	9.40	14.71	298	-	" "
1020	51.45	400	5.20	0.190	88.4	9.26	14.90	270	-	Tinted (Tan)
1025	51.45	400	5.59	0.185	38.7	9.16	15.10	232	-	" "
1030	51.45	400	5.97	0.183	24.0	9.08	15.21	220	-	slight Tint (Tan)
1035	51.45	400	6.13	0.184	15.2	9.07	15.16	221	-	clear
1040	51.45	400	6.26	0.184	11.0	9.07	15.15	223	-	clear
1045	51.45	400	6.29	0.183	8.2	8.99	15.21	227	-	clear
1050	51.45	400	6.29	0.183	5.0	8.92	15.30	226	-	clear
1055	51.45	400	6.30	0.183	4.8	8.95	15.35	226	-	clear
1100	51.45	400	6.29	0.182	4.0	8.93	15.32	228	-	clear
1105	51.45	400	6.28	0.182	3.6	8.92	15.29	228	-	clear
1110	51.45	400	6.28	0.182	3.1	8.90	15.30	229	-	clear - collect sample

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-HMMW29I-01192012
 Project No.: 112G02230 Sample Location: BPS1-HMMW29I
 Sampled By: S. Birkett
 C.O.C. No.: _____
 Type of Sample: Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
1-19-12	clear	11.21	0.339	13.13	2.63	5.20	0.02	11
Time: 0917								
Method: Low Flow - Grundfos								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
1-19-12								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): -								
Well Casing Diameter & Material Type: 4" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): 130.5								
Static Water Level (WL): 42.11								
One Casing Volume(gal/L): --								
Start Purge (hrs): 0810								
End Purge (hrs): 0917								
Total Purge Time (min): 67								
Total Vol. Purged (gal/L): 8 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)+Cu+Ni	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors High pH
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.01mg/L

Circle if Applicable: _____ Signature(s): [Signature]

MS/MSD: - Duplicate ID No.: BPS1-Dup03-01192012 1630



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPSI-HN-29I^{MW}
DATE: 1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
0810	42.11									
0815	42.96	500	11.02	0.399	—	8.06	12.87	79	0.02	clear
0820	43.14	500	11.16	0.410	7.64	5.70	12.83	38	0.02	clear
0825	43.21	375	11.17	0.410	5.02	5.50	12.83	24	0.02	clear
0830	43.25	375	11.14	0.406	4.76	5.41	13.02	23	0.02	clear
0835	43.26	375	11.17	0.398	4.22	5.37	13.21	16	0.02	clear
0840	43.28	375	11.15	0.389	4.00	5.31	13.30	13	0.02	clear
0845	43.28	375	11.20	0.386	3.99	5.26	13.40	13	0.02	clear
0850	43.28	375	11.22	0.380	4.09	5.21	12.98	11	0.02	clear
0855	43.28	375	11.27	0.368	3.68	5.13	12.75	9	0.02	clear 5 gal
0900	43.28	375	11.21	0.360	3.31	5.22	13.28	9	0.02	clear
0905	43.28	375	11.22	0.354	2.93	5.23	13.48	9	0.02	clear
0910	43.28	375	11.19	0.344	2.64	5.24	13.50	11	0.02	clear
0915	43.28	375	11.21	0.339	2.63	5.20	13.13	11	0.02	clear 8 gal
0917	Collect sample									

SIGNATURE(S): J.B. Bull



Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW301# 01172412
 Project No.: 112G02230 Sample Location: BPS1-TT-MW301#
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample:
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
1-17-12	clear	6.06	0.026	17.12	0.0	8.08	--	262
Time: 1140								
Method: Low Flow - Grundfos								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
1-17-12								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): 62'								
Static Water Level (WL): 51.09'								
One Casing Volume(gal/L): --								
Start Purge (hrs): 1040								
End Purge (hrs): 1140								
Total Purge Time (min): 60								
Total Vol. Purged (gal): 5.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	3
PCBs	--	2 1-L amber glass vials	2
Hexavalent Chromium	--	1 250-mL plastic bottle	--
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	--
TOC	H2SO4	3 40-mL amber glass vials	--

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.01 mg/L

Circle if Applicable:

MS/MSD

-

Duplicate ID No.:

-

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPSI-TT-MW301#
1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1035	51.09	-	-	-	-	-	-	-	-	Initial
1042	51.11	400	5.99	0.029	26.4	8.54	14.40	234	-	clear
1045	51.11	400	6.10	0.028	9.6	7.93	15.34	239	-	clear
1050	51.11	400	6.09	0.028	7.0	8.30	16.51	248	-	clear
1055	51.11	400	6.10	0.027	2.9	8.18	16.62	249	-	clear
1100	51.11	400	6.09	0.027	1.3	8.12	16.78	250	-	clear
1105	51.11	400	6.10	0.027	0.6	8.20	16.89	249	-	clear
1110	51.11	400	6.10	0.027	0.2	8.27	16.91	253	-	clear
1115	51.11	400	6.09	0.026	0.0	8.33	16.93	253	-	clear
1120	51.11	400	6.08	0.026	0.1	8.22	17.00	255	-	clear
1125	51.11	400	6.08	0.026	0.1	8.13	17.05	257	-	clear
1130	51.11	400	6.07	0.026	0.0	8.16	17.11	259	-	clear
1135	51.11	400	6.07	0.026	0.0	8.11	17.17	261	-	clear
1140	51.11	400	6.06	0.026	0.0	8.08	17.12	262	-	clear - collect sample

SIGNATURE(S): WHR



GROUNDWATER SAMPLE LOG SHEET

Project Site Name:	NWIRP Bethpage Site 1	Sample ID No.:	BPS1-TR-MW301E-01172012
Project No.:	112G02230	Sample Location:	BPS1-TR-MW301E
<input type="checkbox"/> Domestic Well Data		Sampled By:	VAS
<input checked="" type="checkbox"/> Monitoring Well Data		C.O.C. No.:	
<input type="checkbox"/> Other Well Type:		Type of Sample:	<input checked="" type="checkbox"/> Low Concentration
<input type="checkbox"/> QA Sample Type:			<input type="checkbox"/> High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
1-17-12	clear	5.80	0.632	13.94	0.1	8.74	—	280
Time: 1305								
Method: Low Flow - Grundfos								

PURGE DATA:


Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
1-17-12								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material Type: 2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): 141								
Static Water Level (WL): 50.95								
One Casing Volume(gal/L): --								
Start Purge (hrs): 1205								
End Purge (hrs): 1305								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 6.0								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	3
PCBs	--	2 1-L amber glass vials	2
Hexavalent Chromium	--	1 250-mL plastic bottle	1
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	—
TOC	H2SO4	3 40-mL amber glass vials	—

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
Hexavalent Chromium Test Kit results → 0.01 mg/L

Circle if Applicable:	Signature(s):
MS/MSD —	Duplicate ID No.: — 



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW301I
DATE: 1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1200	50.95	-	-	-	-	-	-	-	-	Initial
1205	50.96	420	6.10	0.026	21.3	6.73	12.80	260	-	clear
1210	50.96	400	5.89	0.030	6.5	7.61	13.50	266	-	clear
1215	50.96	400	5.78	0.031	5.1	8.21	13.73	274	-	clear
1220	50.96	400	5.76	0.031	1.4	8.23	13.64	277	-	clear
1225	50.96	400	5.76	0.030	1.6	8.35	13.62	278	-	clear
1230	50.96	400	5.76	0.031	0.8	8.32	13.63	279	-	clear
1235	50.96	400	5.76	0.031	0.5	8.29	13.57	280	-	clear
1240	50.96	400	5.77	0.032	0.6	8.36	13.64	280	-	clear
1245	50.96	400	5.77	0.031	0.4	8.40	13.75	279	-	clear
1250	50.96	400	5.78	0.032	0.3	8.47	13.84	278	-	clear
1255	50.96	400	5.79	0.032	0.3	8.57	13.93	279	-	clear
1300	50.96	400	5.80	0.032	0.2	8.65	13.99	279	-	clear
1305	50.96	400	5.80	0.032	0.1	8.74	13.94	280	-	clear-collect sample

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW3010-01172012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW3010
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____ Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-17-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>5.78</u>	S.C. (mS/cm): <u>0.397</u>	Temp. (°C): <u>14.48</u>	Turbidity (NTU): <u>0.0</u>	DO (mg/l): <u>5.15</u>	Salinity (%): <u>-</u>	ORP (mV): <u>263</u>
Time: <u>0950</u>	Method: Low Flow - Grundfos							

PURGE DATA:

Date: <u>1-17-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>221'</u>								
Static Water Level (WL): <u>51.75'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>0850</u>								
End Purge (hrs): <u>0950</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>5.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.09 mg/L

Circle if Applicable: _____ Signature(s): VAS

MS/MSD <u>-</u>	Duplicate ID No.: <u>-</u>
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPsi-TT-MW301-D
DATE: 1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0840	51.75	-	-	-	-	-	-	-	-	Initial
0850	51.76	400	5.89	0.506	22.2	7.49	13.06	297	-	clear
0855	51.76	400	5.89	0.492	3.6	5.91	13.74	253	-	clear
0900	51.76	400	5.89	0.490	0.5	5.77	14.09	246	-	clear
0905	51.76	400	5.90	0.488	0.3	5.67	14.19	247	-	clear
0910	51.76	400	5.90	0.471	0.1	5.53	14.26	249	-	clear
0915	51.76	400	5.88	0.449	0.2	5.40	14.24	252	-	clear
0920	51.76	400	5.85	0.446	0.1	5.41	14.30	253	-	clear
0925	51.76	400	5.84	0.434	0.1	5.29	14.34	255	-	clear
0930	51.76	400	5.82	0.418	0.1	5.18	14.38	256	-	clear
0935	51.76	400	5.80	0.402	0.0	5.27	14.45	257	-	clear
0940	51.76	400	5.78	0.399	0.0	5.31	14.47	259	-	clear
0945	51.76	400	5.78	0.397	0.0	5.26	14.46	261	-	clear
0950	51.76	400	5.78	0.397	0.0	5.15	14.48	263	-	clear

SIGNATURE(S): [Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW301B - 01232012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW301D
 Sampled By: J. Birkett
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-23-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>5.91</u>	S.C. (mS/cm): <u>0.539</u>	Temp. (°C): <u>13.95</u>	Turbidity (NTU): <u>4.40</u>	DO (mg/l): <u>4.47</u>	Salinity (%): <u>0.03</u>	ORP (mV): <u>154</u>
Time: <u>1230</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-23-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>---</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>51.83</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1044</u>								
End Purge (hrs): <u>1230</u>								
Total Purge Time (min): <u>46</u>								
Total Vol. Purged (gal/L): <u>5 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	No
PCBs	--	2 1-L amber glass vials	No
Hexavalent Chromium	--	1 250-mL plastic bottle	Yes
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	No
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	No
TOC	H2SO4	3 40-mL amber glass vials	No

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.09 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW301D-
 DATE: 1-23-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1044	51.83									
1046	51.88	400	6.15	0.603	9.00	6.30	13.49	209	0.03	clear
1051	5.88	400	6.14	0.597	6.61	5.40	12.73	179	0.03	clear
1056	51.88	400	5.99	0.618	5.04	4.93	13.10	169	0.03	clear
1201	51.88	400	5.96	0.613	8.31	5.01	13.28	161	0.03	clear
1206	51.88	400	5.96	0.604	8.23	4.85	13.51	151	0.03	clear
1211	51.88	400	5.95	0.590	9.96	4.80	13.73	152	0.03	clear
1216	51.88	400	5.94	0.563	7.72	4.86	13.84	152	0.03	clear
1221	51.88	400	5.92	0.546	5.81	4.58	13.92	152	0.03	clear
1226	51.88	400	5.91	0.539	4.40	4.47	13.95	154	0.03	clear 5 gal
1230	Collect sample									

SIGNATURE(S): [Handwritten Signature]



Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW302~~5~~-01262012

Project No.: 112G02230 Sample Location: BPS1-TT-MW302~~5~~

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

Sampled By: VAS

C.O.C. No.: _____

Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-20-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>0920</u>	<u>clear</u>	<u>6.36</u>	<u>0.040</u>	<u>16.62</u>	<u>0.4</u>	<u>7.23</u>	<u>-</u>	<u>220</u>
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-20-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>								
See Low Flow Purge Sheet for Details								
Total Well Depth (TD):								
Static Water Level (WL): <u>42.41'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>0820</u>								
End Purge (hrs): <u>0920</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit result → 0.01 mg/l

Circle if Applicable:		Signature(s): <u>VAS</u>
MS/MSD	Duplicate ID No.:	

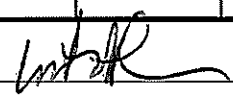


LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW302#
DATE: 1-20-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0815	42.41	-	-	-	-	-	-	-	-	Initial
0820	42.43	400	5.84	0.095	52.0	7.36	13.78	237	-	Tinted (Tan)
0825	42.43	400	6.16	0.052	9.7	7.83	15.70	210	-	clear
0830	42.43	400	6.24	0.047	7.0	7.91	16.12	208	-	clear
0835	42.43	400	6.30	0.044	2.3	7.94	16.36	213	-	clear
0840	42.43	400	6.36	0.044	2.1	7.26	16.24	212	-	clear
0845	42.43	400	6.37	0.043	0.9	7.28	16.22	209	-	clear
0850	42.43	400	6.40	0.045	1.3	7.19	16.30	202	-	clear
0855	42.43	400	6.42	0.046	1.0	7.13	16.37	209	-	clear
0900	42.43	400	6.41	0.045	0.8	7.20	16.41	211	-	clear
0905	42.43	400	6.39	0.043	0.6	7.24	16.50	217	-	clear
0910	42.43	400	6.38	0.042	0.4	7.19	16.56	215	-	clear
0915	42.43	400	6.37	0.040	0.5	7.21	16.60	218	-	clear
0920	42.43	400	6.36	0.040	0.4	7.23	16.62	220	-	clear - collect sample

SIGNATURE(S): 



Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW302I1-01202012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW302I1
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample:
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
1-20-12	clear	5.36	0.125	15.33	0.4	6.87	-	308
Time: 1045	Method: Low Flow - Grundfos							

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
1-20-12								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): 0.0								
Well Casing Diameter & Material								
Type: 2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): 42.47								
One Casing Volume(gal/L): --								
Start Purge (hrs): 0945								
End Purge (hrs): 1045								
Total Purge Time (min): 60								
Total Vol. Purged (gal): 6.5								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	3
PCBs	--	2 1-L amber glass vials	2
Hexavalent Chromium	--	1 250-mL plastic bottle	-
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	--
TOC	H2SO4	3 40-mL amber glass vials	-

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test R.t result → 0.00 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW302I1
DATE: 1-20-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0940	42.47	—	—	—	—	—	—	—	—	Initial
0945	42.48	375	5.81	0.122	63.7	7.99	14.25	274	—	Tinted (Brown)
0950	42.48	400	5.57	0.124	55.6	7.03	14.60	263	—	slight tint (Tan)
0955	42.48	400	5.47	0.123	40.1	7.08	14.56	272	—	" " "
1000	42.48	400	5.43	0.123	32.0	6.95	14.80	276	—	" " "
1005	42.48	400	5.38	0.124	13.2	7.00	14.97	287	—	clear
1010	42.48	400	5.37	0.124	5.9	6.98	15.06	294	—	clear
1015	42.48	400	5.37	0.124	2.8	6.95	15.11	297	—	clear
1020	42.48	400	5.37	0.124	2.1	6.97	15.10	300	—	clear
1025	42.48	400	5.37	0.125	1.4	6.94	15.11	302	—	clear
1030	42.48	400	5.35	0.124	1.5	6.89	15.16	304	—	clear
1035	42.48	400	5.36	0.125	0.8	6.90	15.22	306	—	clear
1040	42.48	400	5.36	0.125	0.6	6.85	15.30	307	—	clear
1045	42.48	400	5.36	0.125	0.4	6.87	15.33	308	—	clear - collect sample

SIGNATURE(S): 



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW30212-01202012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW30212
 Sampled By: J. Birket
 C.O.C. No.: _____
 Type of Sample:
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-20-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1115</u>	<u>clear</u>	<u>5.64</u>	<u>6.193</u>	<u>14.73</u>	<u>6.54</u>	<u>5.72</u>	<u>0.01</u>	<u>218</u>
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-20-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>---</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>42.71</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1017</u>								
End Purge (hrs): <u>1115</u>								
Total Purge Time (min): <u>58</u>								
Total Vol. Purged (gal/L): <u>8 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.01 mg/L

Circle if Applicable: _____ Signature(s): J. Birket

MS/MSD	Duplicate ID No.: _____
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPSI-TT-MW302I2
1-20-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1017	42.71									
1022	42.72	600	8.26	0.181	44.9	6.79	13.11	117	0.01	clear w/ VF sand
1027	42.72	600	7.26	0.185	98.2	7.34	15.13	174	0.01	clear w/ VF sand
1032	42.72	600	6.58	0.187	48.5	7.71	15.54	210	0.01	clear
1037	42.72	500	6.19	0.189	30.1	6.42	15.16	220	0.01	clear
1042	42.72	500	5.84	0.191	18.5	5.89	15.05	221	0.01	clear 5 gal
1047	42.72	400	5.74	0.192	16.6	5.97	14.52	213	0.01	clear
1052	42.72	400	5.68	0.192	11.2	6.03	14.50	217	0.01	clear
1057	42.72	400	5.67	0.192	10.36	6.05	14.80	218	0.01	clear
1102	42.72	400	5.65	0.193	8.93	5.75	14.78	215	0.01	clear
1107	42.72	400	5.64	0.193	7.45	5.73	14.90	215	0.01	clear
1112	42.72	400	5.64	0.193	6.54	5.72	14.78	218	0.01	clear 8 gal
1115	Collect sample									

SIGNATURE(S): *Paul B. [Signature]*



Project Site Name:	NWIRP Bethpage Site 1	Sample ID No.:	BPS1-TT-MW302D-01202012
Project No.:	112G02230	Sample Location:	BPS1-TT-MW302D
<input type="checkbox"/> Domestic Well Data		Sampled By:	J. Birkett
<input checked="" type="checkbox"/> Monitoring Well Data		C.O.C. No.:	
<input type="checkbox"/> Other Well Type:		Type of Sample:	<input checked="" type="checkbox"/> Low Concentration
<input type="checkbox"/> QA Sample Type:			<input type="checkbox"/> High Concentration

SAMPLING DATA:

Date:	1-20-12	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	1000	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method:	Low Flow - Grundfos	Clear	9.38	0.264	15.16	2.19	4.73	0.01	109

PURGE DATA:

Date:	1-20-12	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method:	Low Flow - Grundfos								
Monitor Reading (ppm):									
Well Casing Diameter & Material									
Type:	2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):									
Static Water Level (WL):	42.98								
One Casing Volume(gal/L):	--								
Start Purge (hrs):	0827								
End Purge (hrs):	1000								
Total Purge Time (min):	93								
Total Vol. Purged (gal/L):	125 gal								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe, Cu, etc.)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~~2~~ feet off bottom
 Hexavalent Chromium Test Kit Result : 0.00mg/L

pH was high and would not stabilize
 -dropping

Note: Tubing was a little short, but probably
 near top of screen

Circle if Applicable:

MS/MSD Duplicate ID No.

Signature(s):

J. Birkett



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW302D
 DATE: 1-20-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0827	42.98									
0832	43.04	600	10.73	0.363	6.71	7.06	14.86	72	0.02	clear
0837	43.03	500	10.75	0.365	5.26	6.10	15.17	57	0.02	clear
0842	43.03	500	10.78	0.361	9.06	4.75	14.80	53	0.02	clear
0847	43.03	400	10.80	0.358	5.15	4.76	14.34	50	0.02	clear
0852	43.01	400	10.77	0.354	4.27	4.58	13.96	49	0.02	clear 5 gal
0857	43.01	400	10.68	0.342	3.46	3.78	13.92	51	0.02	clear
0902	43.01	400	10.56	0.327	2.42	4.80	14.04	52	0.02	clear
0907	43.01	400	10.44	0.314	1.96	4.82	14.16	55	0.02	clear
0912	43.01	400	10.33	0.304	2.10	4.62	14.49	60	0.02	clear
0917	43.01	400	10.25	0.294	2.70	4.63	14.76	64	0.02	clear
0922	43.01	400	10.22	0.292	2.88	4.63	14.86	66	0.02	clear
0927	43.01	400	10.16	0.289	2.87	4.63	14.92	70	0.02	clear
0932	43.01	400	10.07	0.284	2.87	4.61	14.87	75	0.02	clear
0937	43.01	400	9.93	0.278	2.65	4.55	14.98	82	0.02	clear 10 gal
0942	43.01	400	9.79	0.273	2.89	4.64	15.10	89	0.02	clear
0947	43.01	400	9.71	0.270	2.53	4.71	15.07	94	0.01	clear
0952	43.01	400	9.62	0.268	2.34	4.66	14.99	99	0.01	clear
0957	43.01	400	9.38	0.264	2.19	4.73	15.16	109	0.01	clear 12.5 gal
1000	Collect sample 4									

SIGNATURE(S): *John Bullitt*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW303S-01232012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW303S
 Sampled By: _____
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
1-23-12	clear	6.65	0.442	16.88	4.26	9.71	0.02	156
Time: 1049								
Method: Low Flow - Grundfos								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
1-23-12								
Method: Low Flow - Grundfos								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: 2" Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): 42.15								
One Casing Volume(gal/L): --								
Start Purge (hrs): 0949								
End Purge (hrs): 1049								
Total Purge Time (min): 60								
Total Vol. Purged (gal/L): 7.91								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals -2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.01mg/L

Circle if Applicable:

MS/MSD

—

Duplicate ID No.:

BPS1-Dup04-01232012

1600

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW 303 S
 DATE: 1-23-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0949	42.15									
0951	42.15	600	6.23	0.488	78.6	12.92	13.25	156	0.02	tan tint
0956	42.15	500	6.48	0.491	92.4	11.61	14.21	124	0.02	tan tint
1001	42.15	500	6.49	0.476	62.6	11.54	15.24	119	0.02	clear
1006	42.15	400	6.55	0.467	34.9	10.99	15.50	136	0.02	clear
1017	42.15	400	6.57	0.460	20.4	10.79	15.91	143	0.02	clear
1016	42.15	400	6.60	0.448	14.5	10.54	15.93	147	0.02	clear
1021	42.15	400	6.63	0.448	10.29	10.51	16.71	141	0.02	clear
1026	42.15	400	6.66	0.441	9.04	10.35	16.79	145	0.02	clear 5 gal
1031	42.15	400	6.66	0.444	6.20	10.20	16.87	150	0.02	clear
1036	42.15	400	6.67	0.446	4.51	10.05	16.88	151	0.02	clear
1041	42.15	400	6.65	0.443	4.86	9.91	16.90	155	0.02	clear
1046	42.15	400	6.65	0.442	4.26	9.71	16.88	156	0.02	clear 7 gal
1049	Collect sample and duplicate									

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW303E1-01192012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW303E1
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-19-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1415</u>	<u>tan color</u>	<u>9.61</u>	<u>0.206</u>	<u>15.81</u>	<u>339</u>	<u>0.07</u>	<u>-</u>	<u>-32</u>
Method: Low Flow - Grundfos								

PURGE DATA:

Date: <u>1-19-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>42.49</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1215</u>								
End Purge (hrs): <u>1415</u>								
Total Purge Time (min): <u>120</u>								
Total Vol. Purged (gal): <u>14.0</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>--</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>--</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit result → 0.00 mg/L (without Acid added)
 → 0.00 mg/L (with Acid Added)

Circle if Applicable: _____ Signature(s): VAS

MS/MSD	Duplicate ID No.: _____
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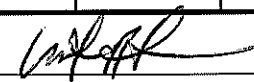


LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW303I1
 DATE: 1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
1205	42.49	-	-	-	-	-	-	-	-	Initial
1215	42.52	300	9.74	0.213	305	0.94	14.13	140	-	cloudy (Brown)
1220	42.52	300	9.75	0.210	300	0.51	15.20	113	-	" "
1225	42.52	300	9.75	0.209	313	0.42	15.50	90	-	" "
1230	42.52	325	9.74	0.208	339	0.41	15.68	65	-	" "
1235	42.52	325	9.71	0.208	415	0.39	15.77	49	-	" "
1240	42.52	325	9.71	0.208	430	0.42	15.83	43	-	" "
1245	42.52	300	9.72	0.208	432	0.44	15.59	37	-	" "
1250	42.52	300	9.69	0.207	450	0.41	15.51	29	-	" "
1255	42.52	300	9.69	0.207	433	0.37	15.60	21	-	" "
1300	42.52	300	9.69	0.207	419	0.34	15.62	16	-	" "
1305	42.52	300	9.69	0.207	399	0.38	15.75	8	-	" "
1310	42.52	300	9.70	0.207	404	0.31	15.80	3	-	" "
1315	42.52	300	9.69	0.207	397	0.28	15.82	-2	-	" "
1320	42.52	300	9.67	0.207	362	0.30	15.90	-6	-	" "
1325	42.52	300	9.67	0.207	390	0.27	15.92	-11	-	" "
1330	42.52	300	9.67	0.206	400	0.25	15.91	-12	-	" "
1335	42.52	300	9.64	0.206	377	0.21	15.90	-13	-	" "
1340	42.52	300	9.62	0.206	390	0.19	15.87	-14	-	" "
1345	42.52	300	9.60	0.206	400	0.17	15.88	-18	-	" "
1350	42.52	300	9.60	0.205	311	0.15	15.88	-24	-	" "
1355	42.52	300	9.61	0.205	314	0.16	15.91	-28	-	" "
1400	42.52	300	9.61	0.205	338	0.13	15.87	-30	-	" "
1405	42.52	300	9.61	0.206	342	0.09	15.86	-32	-	" "
1410	42.52	300	9.61	0.206	348	0.08	15.83	-31	-	" "
1415	42.52	300	9.61	0.206	339	0.07	15.81	-32	-	" " collect sample.

SIGNATURE(S): 



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW303I2-01192012
Sample Location: BPS1-TT-MW303I2
Sampled By: J. Birkett
C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
 - High Concentration

SAMPLING DATA:

Date: <u>1-19-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>5.64</u>	S.C. (mS/cm): <u>0.124</u>	Temp. (°C): <u>14.26</u>	Turbidity (NTU): <u>2.19</u>	DO (mg/l): <u>4.71</u>	Salinity (%): <u>0.01</u>	ORP (mV): <u>191</u>
Time: <u>1307</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-19-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>---</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>42.82</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1200</u>								
End Purge (hrs): <u>1307</u>								
Total Purge Time (min): <u>67</u>								
Total Vol. Purged (gal/L): <u>8 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	yes
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
Pump set within screened intervals ~2 feet off bottom
Hexavalent Chromium Test Kit Result: 0.01 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPSI-TT-MW303I 2
1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1200	42.82									
1205	42.86	650	5.72	0.127	176	6.58	12.92	141	0.01	tan color
1210	42.85	650	5.68	0.125	134	10.22	13.40	129	0.01	tan tint
1215	42.86	600	5.65	0.124	63.5	5.84	14.09	149	0.01	clear
1220	42.82	450	5.70	0.124	41.1	5.20	13.92	165	0.01	clear
1225	42.82	400	5.69	0.124	22.7	5.05	13.70	165	0.01	clear
1230	42.82	400	5.69	0.124	14.4	4.48	13.65	163	0.01	clear
1235	42.82	500	5.59	0.125	51.3	5.27	13.22	170	0.01	pump had to be restarted
1240	42.82	400	5.64	0.125	30.5	5.04	13.86	153	0.01	clear 5 gal
1245	42.82	400	5.65	0.124	11.7	4.98	14.00	167	0.01	clear
1250	42.82	400	5.65	0.124	5.44	4.87	14.13	174	0.01	clear
1255	42.82	400	5.65	0.124	4.45	4.75	14.15	183	0.01	clear
1300	42.82	400	5.65	0.124	4.38	4.75	14.17	188	0.01	clear
1305	42.82	400	5.64	0.124	2.19	4.71	14.26	191	0.01	clear
1307	Collect sample									

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW3SD-01192012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW303D
 Sampled By: J. Birkett
 C.O.C. No.: _____
 Type of Sample:
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-19-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1452</u>	<u>clear</u>	<u>6.10</u>	<u>0.199</u>	<u>14.07</u>	<u>15.6</u>	<u>5.39</u>	<u>0.01</u>	<u>165</u>
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-19-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>—</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>42.96</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1340</u>								
End Purge (hrs): <u>1452</u>								
Total Purge Time (min): <u>72</u>								
Total Vol. Purged (gal/L): <u>13 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.00 mg/L

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s):

J. Birkett



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW303D
 DATE: 1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1340	42.94									
1350	43.01	500	6.52	0.202	58.7	3.10	12.06	157	0.01	tan tint
1355	43.05	300	6.38	0.201	240	6.24	13.72	123	0.01	flush TURB out
1400	43.05	300	6.42	0.202	234	6.30	14.51	112	0.01	tan color
1405	43.05	300	6.47	0.202	203	6.33	14.71	129	0.01	tan color
1410	43.01	500	6.39	0.199	129	6.09	14.76	148	0.01	tan tint 5 gal
1415	43.01	500	6.30	0.199	87.2	5.97	14.72	155	0.01	tan tint
1420	43.01	500	6.25	0.198	65.3	5.78	14.65	156	0.01	tan tint (slight)
1425	43.00	400	6.20	0.198	48.9	5.62	14.60	160	0.01	clear
1430	43.00	400	6.18	0.198	40.8	5.54	14.43	160	0.01	clear 9 gal
1435	43.00	400	6.10	0.199	34.0	5.55	14.34	162	0.01	clear
1440	43.00	400	6.13	0.198	23.1	5.44	14.45	161	0.01	clear
1445	43.00	400	6.11	0.197	20.3	5.33	14.32	161	0.01	clear
1450	43.00	400	6.10	0.199	15.6	5.39	14.07	165	0.01	clear
1452	Collect sample									

SIGNATURE(S): [Handwritten Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW304#-01182012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW304#
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-18-12</u>	<u>clear</u>	<u>5.45</u>	<u>0.002</u>	<u>17.30</u>	<u>0.1</u>	<u>10.54</u>	<u>-</u>	<u>293</u>
Time: <u>1045</u>								
Method: Low Flow - Grundfos								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-18-12</u>								
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>54'</u>								
Static Water Level (WL): <u>45.46'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>0945</u>								
End Purge (hrs): <u>1045</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>6.0</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit result → 0.00 mg/L

Circle if Applicable:

MS/MSD

-

Duplicate ID No.:

-

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW304
 DATE: 1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
0935	45.96	-	-	-	-	-	-	-	-	Initial
0945	45.97	400	5.97	0.029	36.3	10.84	15.20	235	-	slight tint (Ten)
0950	45.97	400	6.10	0.020	17.4	10.58	16.41	235	-	clear
0955	45.97	400	6.03	0.015	13.2	10.56	16.93	243	-	clear
1000	45.97	400	5.95	0.010	8.5	10.54	17.28	252	-	clear
1005	45.97	400	5.78	0.006	4.8	10.57	17.36	257	-	clear
1010	45.97	400	5.70	0.005	2.0	10.61	17.28	272	-	clear
1015	45.97	400	5.68	0.005	1.0	10.64	17.33	275	-	clear
1020	45.97	400	5.55	0.005	1.3	10.63	17.30	279	-	clear
1025	45.97	400	5.52	0.004	0.4	10.62	17.28	285	-	clear
1030	45.97	400	5.50	0.004	0.1	10.62	17.22	292	-	clear
1035	45.97	400	5.47	0.003	0.1	10.60	17.23	297	-	clear
1040	45.97	400	5.46	0.003	0.1	10.57	17.28	295	-	clear
1045	45.97	400	5.45	0.002	0.1	10.54	17.30	293	-	clear - collect sample

SIGNATURE(S): *[Signature]*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TR-MW304I1-01182012
 Project No.: 112G02230 Sample Location: BPS1-TR-MW304I1
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-18-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1225</u>	<u>clear</u>	<u>6.67</u>	<u>0.114</u>	<u>15.12</u>	<u>9.2</u>	<u>7.54</u>	<u>-</u>	<u>209</u>
Method: Low Flow - Grundfos								

PURGE DATA:


Date: <u>1-18-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>113'</u>								
Static Water Level (WL): <u>46.22'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1125</u>								
End Purge (hrs): <u>1225</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal/L): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>1</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit results → 0.04 mg/L

Circle if Applicable: _____ Signature(s): 

MS/MSD	Duplicate ID No.: _____
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW304I1
DATE: 1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1110	46.22	-	-	-	-	-	-	-	-	Initial
1125	46.23	400	7.40	0.182	19.6	10.97	14.24	219	-	clear
1130	46.23	400	7.22	0.178	422	9.69	14.18	200	-	cloudy (Brown)
1135	46.23	400	6.90	0.170	245	9.13	14.70	173	-	" "
1140	46.23	400	6.83	0.162	172	8.55	14.80	184	-	" "
1145	46.23	400	6.76	0.148	119	7.60	14.84	196	-	Tinted (Tan)
1150	46.23	400	6.74	0.137	77.3	7.52	14.92	200	-	slight tint (Tan)
1155	46.23	400	6.72	0.131	60.4	7.40	14.97	202	-	" " "
1200	46.23	400	6.71	0.123	47.5	7.32	15.01	208	-	" " "
1205	46.23	400	6.71	0.120	39.0	7.41	15.00	209	-	" " "
1210	46.23	400	6.69	0.117	26.1	7.46	15.03	207	-	" " "
1215	46.23	400	6.69	0.115	16.4	7.51	15.04	208	-	clear
1220	46.23	400	6.68	0.114	13.0	7.52	15.09	209	-	clear
1225	46.23	400	6.67	0.114	9.2	7.54	15.12	209	-	clear - collect sample

SIGNATURE(S): *[Signature]*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW304I2-01182012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW 304I2
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-18-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1400</u>	<u>clear</u>	<u>5.55</u>	<u>0.073</u>	<u>14.51</u>	<u>1.8</u>	<u>8.33</u>	<u>-</u>	<u>296</u>
Method: Low Flow - Grundfos								

PURGE DATA:

Date: <u>1-18-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material	See Low Flow Purge Sheet for Details							
Type: <u>2" Schedule 40 PVC</u>								
Total Well Depth (TD): <u>151</u>								
Static Water Level (WL): <u>46.40'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1300</u>								
End Purge (hrs): <u>1400</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal/L): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>6</u>
PCBs	--	2 1-L amber glass vials	<u>4</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>2</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>2</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit results → 0.18 mg/L

Circle if Applicable:

MS/MSD

-

Duplicate ID No.:

BPS1-TT-Dup02-01182012

(Time → 1600 hrs)

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPsi-TT-MW304I2
1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1250	46.40	-	-	-	-	-	-	-	-	Initial
1300	46.41	400	6.73	0.082	120	11.16	14.10	198	-	Tinted (Ten)
1305	46.41	400	6.17	0.079	116	10.25	14.48	220	-	" "
1310	46.41	400	5.74	0.075	47.6	9.66	14.61	246	-	slight tint (Ten)
1315	46.41	400	5.63	0.073	18.2	9.11	14.72	261	-	clear
1320	46.41	400	5.56	0.073	11.7	8.80	14.68	270	-	clear
1325	46.41	400	5.57	0.073	5.5	8.71	14.64	273	-	clear
1330	46.41	400	5.58	0.073	4.0	8.60	14.66	275	-	clear
1335	46.41	400	5.57	0.073	3.9	8.58	14.63	280	-	clear
1340	46.41	400	5.55	0.073	3.0	8.49	14.65	281	-	clear
1345	46.41	400	5.55	0.073	2.2	8.37	14.61	281	-	clear
1350	46.41	400	5.54	0.073	1.9	8.35	14.56	283	-	clear
1355	46.41	400	5.55	0.073	2.0	8.31	14.53	285	-	clear
1400	46.41	400	5.55	0.073	1.8	8.33	14.51	286	-	clear - collect sample

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW309D-01192012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW309D
 [] Domestic Well Data Sampled By: J. Birkett
 [X] Monitoring Well Data C.O.C. No.: _____
 [] Other Well Type: _____ Type of Sample:
 [] QA Sample Type: _____ [X] Low Concentration
 [] High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-19-12</u>	<u>Clear</u>	<u>5.85</u>	<u>0.122</u>	<u>14.64</u>	<u>11.1</u>	<u>7.91</u>	<u>0.01</u>	<u>190</u>
Time: <u>1117</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-19-12</u>								
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>—</u>								
Well Casing Diameter & Material								
Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>1015</u> ← <u>46.59</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1015</u>								
End Purge (hrs): <u>1017</u>								
Total Purge Time (min): <u>62</u>								
Total Vol. Purged (gal/L): <u>8 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.00mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW304D
 DATE: 1-19-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1015	46.59									
1020	46.66	600	8.44	0.137	1789	16.36	12.47	163	0.01	tan color (milky)
1025	46.66	600	7.74	0.125	812	11.41	13.20	103	0.01	tan color
1030	46.65	500	7.01	0.123	188	9.89	14.74	149	0.01	tan tint
1035	46.63	400	6.58	0.123	67.2	9.63	14.68	174	0.01	tan tint
1040	46.61	400	6.32	0.123	43.8	9.51	14.36	191	0.01	clear 5 gal
1045	46.60	400	6.13	0.123	33.5	9.31	14.24	197	0.01	clear
1050	46.60	400	5.97	0.123	30.1	9.17	14.14	192	0.01	clear
1055	46.60	400	5.90	0.124	28.4	8.29	13.59	192	0.01	clear
1100	46.60	400	5.84	0.123	27.7	8.06	14.49	191	0.01	clear
1105	46.60	400	5.85	0.123	13.9	8.07	14.11	187	0.01	clear
1110	46.60	400	5.85	0.123	13.4	7.97	14.66	188	0.01	clear
1115	46.60	400	5.85	0.122	11.1	7.91	14.64	190	0.01	clear
1117	Collect sample									

SIGNATURE(S): *[Handwritten Signature]*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW3055-01172012

Sample Location: BPS1-TT-MW3055

Sampled By: J. Birkett

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
 - High Concentration

SAMPLING DATA:

Date: <u>1-17-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>5.74</u>	S.C. (mS/cm): <u>0.06</u>	Temp. (°C): <u>13.10</u>	Turbidity (NTU): <u>3.62</u>	DO (mg/l): <u>10.01</u>	Salinity (%): <u>0.00</u>	ORP (mV): <u>215</u>
Time: <u>1050</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-17-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): _____								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>49.74</u>								
Static Water Level (WL): <u>42.91</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1000</u>								
End Purge (hrs): <u>1050</u>								
Total Purge Time (min): <u>50</u>								
Total Vol. Purged (gal/L): <u>13.5-1</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>yes</u>
PCBs	--	2 1-L amber glass vials	<u>yes</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>no</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>yes</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>no</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>no</u>

OBSERVATIONS / NOTES:

No stains, odors, or elevated PID readings

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit Result: 0.00 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.:

BPS1-Dup01-01172012 ¹²⁰⁰

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPSI-TT-MW305 \$
1-16-2012

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1251	42.98									Use pump w/ electrical tape on wiring
1255	43.05	900	5.86	0.103	—	12.84	17.11	132	0.00	tan color
1300	43.03	600	5.76	0.099	148	12.03	17.21	145	0.00	tan tint
1305	43.00	450	5.78	0.098	111	11.90	17.48	155	0.00	tan tint
1310	43.00	450	5.79	0.097	70.0	11.80	17.85	158	0.00	slight tan tint 45 gal
1315	43.00	400	5.83	0.096	35.8	11.68	17.52	166	0.00	clearish
1320	43.00	400	5.83	0.099	30.9	11.82	16.87	164	0.00	clear
1325	43.00	400	5.79	0.098	30.2	11.00	16.90	164	0.00	clear
1330			5.83	0.099		11.31	16.30	163	0.00	Pump rate slowing, keep
1335			5.81	0.100		11.31	16.34	164	0.00	increasing control box Hz
Pump broke (wires exposed, Ground Fault)										set 300 Hz but not pumping water made it through tip

SIGNATURE(S): *John B. Smith*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW305I-01172012

Sample Location: BPS1-TT-MW 305I

Sampled By: J. Birke H

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample: Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>1-17-2012</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1158</u>	<u>Clear</u>	<u>5.51</u>	<u>0.231</u>	<u>16.06</u>	<u>19.2</u>	<u>8.00</u>	<u>0.01</u>	<u>217</u>
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-17-2012</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>---</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>43.41</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1103</u>								
End Purge (hrs): <u>1158</u>								
Total Purge Time (min): <u>55</u>								
Total Vol. Purged (gal/L): <u>10 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	no
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odor

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit Result : 0.00 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSL-TT-MW305I
 DATE: 1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1103	43.41									clear
1108	43.42	800	5.82	0.233	Out Range	9.22	15.34	232	0.01	light brownish orange
1113	43.42	800	6.06	0.252	" "	8.51	16.15	194	0.01	brown / orange
1118	43.41	500	5.73	0.236	864	7.49	16.08	201	0.01	light brown tint
1123	43.41	456	5.68	0.235	32	7.69	15.86	210	0.01	tan tint
1128	43.42	450	5.61	0.234	103.6	7.90	15.88	208	0.01	tan tint
1133		400	5.63	0.233	654	7.79	16.09	201	0.01	clearish
1138	43.42	400	5.60	0.232	45.4	7.84	16.24	204	0.01	clear
1143	43.42	400	5.61	0.231	31.8	8.24	16.17	207	0.01	
1148	43.42	400	5.61	0.231	25.7	8.01	16.22	212	0.01	
1153	43.42	400	5.59	0.231	19.2	8.00	16.06	217	0.01	
1158	Collect	Sample								10 gal

SIGNATURE(S): 



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW305D 01172012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW305D
 Sampled By: J. Birkhoff
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time:	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
<u>1-17-12</u>	<u>clear</u>	<u>6.48</u>	<u>0.148</u>	<u>13.42</u>	<u>33.4</u>	<u>5.73</u>	<u>0.0</u>	<u>179</u>
<u>1446</u>								
Method: Low Flow - Grundfos								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-17-12</u>								
Method: Low Flow - Grundfos								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD):								
Static Water Level (WL): <u>43.57</u>								
One Casing Volume(gal/L): --								
Start Purge (hrs): <u>1350</u>								
End Purge (hrs): <u>1446</u>								
Total Purge Time (min): <u>56</u>								
Total Vol. Purged (gal/L): <u>6 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes
PCBs	--	2 1-L amber glass vials	yes
Hexavalent Chromium	--	1 250-mL plastic bottle	yes
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.00mg/L

Circle if Applicable: _____ Signature(s): J. Birkhoff
 MS/MSD _____ Duplicate ID No.: _____



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

NWIRP Bethpage Site 1
112G02230

WELL ID.:
DATE:

BPSI-TT-MW30SD
1-17-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1350	43.57									
1354	43.81	800	6.36	0.159	—	7.53	14.01	288	0.0	clear
1359	43.65	450	6.65	0.160	1415	6.30	14.20	257	0.0	tan color
1404	43.67	400	6.62	0.158	389	6.63	14.40	176	0.0	tan tint
1409	43.62	350	6.52	0.154	255	6.52	14.29	173	0.0	tan tint
1414	43.62	350	6.56	0.154	150	6.56	13.55	173	0.0	tan tint
1419	43.62	350	6.55	0.152	92.2	6.55	13.28	176	0.0	slight tan tint
1424	43.62	350	6.53	0.151	74.6	6.53	13.45	177	0.0	clearish
1429	43.62	350	6.52	0.150	48.0	5.37	13.33	178	0.0	clear
1434	43.62	350	6.49	0.149	47.3	5.81	13.25	178	0.0	clear
1439	43.62	350	6.48	0.149	31.8	5.69	13.39	179	0.0	clear
1444	43.62	350	6.48	0.148	33.4	5.73	13.42	179	0.0	clear
1446	Collect sample									

SIGNATURE(S): [Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW3064-01232012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW3064
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date: <u>1-23-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1350</u>	<u>clear</u>	<u>5.97</u>	<u>0.077</u>	<u>16.91</u>	<u>6.0</u>	<u>8.15</u>	<u>6</u>	<u>266</u>
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-23-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>60'</u>								
Static Water Level (WL): <u>44.96'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1250</u>								
End Purge (hrs): <u>1350</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>7.0</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>1</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>3</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.01 mg/L
No stems or odors observed

Circle if Applicable: _____ Signature(s): [Signature]

MS/MSD	Duplicate ID No.:
<u>-</u>	<u>-</u>



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW3064
 DATE: 1-23-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1245	44.96	-	-	-	-	-	-	-	-	Initial
1250	44.98	425	5.77	0.082	613	9.47	15.30	231	-	cloudy (Brown)
1255	44.98	400	5.90	0.080	566	9.01	16.30	236	-	" "
1300	44.98	400	5.94	0.078	430	8.72	16.41	249	-	" "
1305	44.97	400	6.00	0.078	199	8.27	16.40	251	-	" "
1310	44.97	400	5.99	0.078	113	8.22	16.59	252	-	Tinted (Tan)
1315	44.97	400	5.97	0.078	92.5	8.16	16.82	250	-	" "
1320	44.97	400	5.96	0.078	59.2	8.24	16.88	254	-	slight tint (Tan)
1325	44.97	400	5.98	0.077	37.8	8.28	16.91	256	-	" " "
1330	44.98	400	5.98	0.077	28.3	8.20	16.91	259	-	" " "
1335	44.98	400	5.98	0.077	15.6	8.21	16.93	261	-	clear
1340	44.98	400	5.98	0.077	8.9	8.17	16.93	263	-	clear
1345	44.98	400	5.97	0.077	7.4	8.13	16.89	264	-	clear
1350	44.98	400	5.97	0.077	6.0	8.15	16.91	266	-	clear - collect sample

SIGNATURE(S): *[Handwritten Signature]*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW306I-01232012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW306I
 Sampled By: VAS
 C.O.C. No.: _____
 Type of Sample: _____
 Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-23-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>5.70</u>	S.C. (mS/cm): <u>0.120</u>	Temp. (°C): <u>16.38</u>	Turbidity (NTU): <u>0.1</u>	DO (mg/l): <u>7.00</u>	Salinity (%): <u>-</u>	ORP (mV): <u>269</u>
Time: <u>1210</u>	Method: Low Flow - Grundfos							

PURGE DATA:

Date: <u>1-23-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>199'</u>								
Static Water Level (WL): <u>45.34'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1110</u>								
End Purge (hrs): <u>1210</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>7.0</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>7</u>
PCBs	--	2 1-L amber glass vials	<u>6</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>1</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>3</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.00 Mg/L
No stains or odors observed

Circle if Applicable: MS/MSD Duplicate ID No.: _____ Signature(s): [Signature]



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPSI-MW306I
 DATE: 1-23-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1105	45.34	-	-	-	-	-	-	-	-	Initial
1110	45.36	425	5.86	0.107	204	7.79	15.16	290	-	cloudy (Brown)
1115	45.36	400	5.90	0.131	307	6.55	15.80	218	-	" "
1120	45.37	400	5.83	0.127	79.7	6.64	15.95	236	-	slight tint (Tan)
1125	45.37	400	5.78	0.123	30.9	6.80	16.04	247	-	" " "
1130	45.37	400	5.74	0.122	18.6	6.85	16.15	251	-	clear
1135	45.36	400	5.72	0.121	7.5	6.93	16.18	255	-	clear
1140	45.37	400	5.72	0.120	4.8	6.95	16.21	258	-	clear
1145	45.37	400	5.71	0.119	2.7	6.87	16.23	261	-	clear
1150	45.36	400	5.70	0.119	2.3	6.92	16.28	263	-	clear
1155	45.36	400	5.71	0.120	1.6	6.95	16.29	263	-	clear
1200	45.36	400	5.69	0.120	0.5	7.01	16.31	267	-	clear
1205	45.36	400	5.70	0.119	0.2	6.98	16.36	268	-	clear
1210	45.36	400	5.70	0.120	0.1	7.00	16.38	269	-	clear - collect sample

SIGNATURE(S): *[Handwritten Signature]*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW306B-01232012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW306B
 Domestic Well Data Sampled By: VAS
 Monitoring Well Data C.O.C. No.: _____
 Other Well Type: _____ Type of Sample: _____
 QA Sample Type: _____ Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>1-23-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>6.06</u>	S.C. (mS/cm): <u>0.114</u>	Temp. (°C): <u>15.60</u>	Turbidity (NTU): <u>0.0</u>	DO (mg/l): <u>7.01</u>	Salinity (%): <u>-</u>	ORP (mV): <u>231</u>
Time: <u>1035</u>	Method: Low Flow - Grundfos							

PURGE DATA:

Date: <u>1-23-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material	See Low Flow Purge Sheet for Details							
Type: <u>2" Schedule 40 PVC</u>								
Total Well Depth (TD): <u>294'</u>								
Static Water Level (WL): <u>45.95'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>0935</u>								
End Purge (hrs): <u>1035</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>1</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals -2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.01 mg/L
No stains or odors observed

Circle if Applicable: _____ Signature(s): VAS

MS/MSD: <u>-</u>	Duplicate ID No.: <u>-</u>
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LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
 PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW306D
 DATE: 1-23-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
0925	45.95	-	-	-	-	-	-	-	-	Initial
0935	45.97	400	6.02	0.136	144	8.32	15.02	235	-	Tinted (Brown)
0940	45.97	400	6.12	0.133	209	7.63	15.08	209	-	" "
0945	45.97	400	6.15	0.125	150	7.30	15.15	192	-	" "
0950	45.97	400	6.15	0.121	76.4	7.05	15.21	201	-	slight tint (Tan)
0955	45.97	400	6.12	0.118	30.3	7.10	15.27	207	-	" " "
1000	45.97	400	6.09	0.117	18.1	6.98	15.35	213	-	clear
1005	45.97	400	6.06	0.116	6.6	7.02	15.41	219	-	clear
1010	45.97	400	6.02	0.115	2.4	7.00	15.50	223	-	clear
1015	45.97	400	6.04	0.115	0.9	6.96	15.54	224	-	clear
1020	45.97	400	6.05	0.115	0.4	7.01	15.60	226	-	clear
1025	45.97	400	6.05	0.114	0.1	7.02	15.61	229	-	clear
1030	45.97	400	6.05	0.114	0.0	7.00	15.63	230	-	clear
1035	45.97	400	6.06	0.114	0.0	7.01	15.60	231	-	clear - collect sample

SIGNATURE(S): *[Signature]*



Project Site Name: NWIRP Bethpage Site 1
 Project No.: 112G02230

Sample ID No.: BPS1-TT-MW3075-01182012

Sample Location: BPS1-TT-MW3075

Sampled By: J. Birkett

C.O.C. No.: _____

Type of Sample:

- Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

- Low Concentration
 High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-18-2012</u>	<u>clear</u>	<u>6.44</u>	<u>0.183</u>	<u>17.57</u>	<u>9.55</u>	<u>8.30</u>	<u>0.01</u>	<u>164</u>
Time: <u>1450</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-18-12</u>								
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): _____								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): _____								
Static Water Level (WL): <u>41.73</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1323</u>								
End Purge (hrs): <u>1450</u>								
Total Purge Time (min): <u>82</u>								
Total Vol. Purged (gal/L): <u>13 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>yes 3</u>
PCBs	--	2 1-L amber glass vials	<u>yes 2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>no</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>yes 1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>no</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>no</u>

OBSERVATIONS / NOTES:

No stains or odors

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit Result: 0.00 mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

J. Birkett



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW307S
DATE: 1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1328	41.73									
1330	41.73	800	5.96	0.142	Over Range	11.94	15.60	153	0.01	Red/brown water
1335	41.73	500	6.33	0.176	1136	6.75	16.56	122	0.01	Red color
1340	41.73	450	6.36	0.179	287	6.09	17.44	113	0.01	Red tint
1345	41.73	400	6.40	0.182	183	5.50	17.69	122	0.01	Red tint
1350	41.73	400	6.38	0.181	125	5.95	16.71	119	0.01	Red tint
1355	41.73	400	6.41	0.179	91.6	5.49	18.40	123	0.01	tan tint
1400	41.73	400	6.41	0.182	55.4	5.43	18.46	126	0.01	clear 5gal
1405	41.73	350	6.43	0.186	51.9	6.08	17.73	128	0.01	clear, pump slowed
1410	41.73	350	6.43	0.187	132	6.44	18.02	103	0.01	increase Hz
1423	41.75	600	6.36	0.190	327	7.42	17.35	128	0.01	pump surge
1428	41.75	600	6.38	0.185	125	7.31	17.37	132	0.01	shutdown Red tint
1433	41.74	500	6.44	0.187	59.6	8.23	17.46	152	0.01	clearish 10 gal
1438	41.73	450	6.44	0.182	30.9	8.60	17.46	152	0.01	clear
1443	41.73	400	6.44	0.183	15.2	8.34	17.54	163	0.01	clear
1448	41.73	400	6.44	0.183	9.55	8.30	17.57	164	0.01	clear 13 gal
1450	Collect sample									

SIGNATURE(S): *Paul B. Smith*



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1 Sample ID No.: BPS1-TT-MW307E 01182012
 Project No.: 112G02230 Sample Location: BPS1-TT-MW 307J
 Sampled By: A. Berkett
 C.O.C. No.: _____
 Type of Sample: Low Concentration
 High Concentration

Domestic Well Data
 Monitoring Well Data
 Other Well Type: _____
 QA Sample Type: _____

SAMPLING DATA:

Date: <u>1-18-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1232</u>	<u>clear</u>	<u>5.77</u>	<u>0.186</u>	<u>13.96</u>	<u>12.2</u>	<u>365</u>	<u>0.1</u>	<u>166</u>
Method: Low Flow - Grundfos								

PURGE DATA:

Date: <u>1-18-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm):								
Well Casing Diameter & Material								
Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>198</u>								
Static Water Level (WL): <u>42.14</u>								
One Casing Volume(gal/L): --								
Start Purge (hrs): <u>1126</u>								
End Purge (hrs): <u>1232</u>								
Total Purge Time (min): <u>66</u>								
Total Vol. Purged (gal/L): <u>8.5 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	yes 3
PCBs	--	2 1-L amber glass vials	yes 2
Hexavalent Chromium	--	1 250-mL plastic bottle	yes 1
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	yes 1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	no
TOC	H2SO4	3 40-mL amber glass vials	no

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.00 mg/L
Dup: 0.00 mg/L

Circle if Applicable: _____ Signature(s): [Signature]

MS/MSD	Duplicate ID No.:
_____	_____



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW 307 L
DATE: 1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1126	42.14									clear
1130	42.30	600	5.85	0.198	2139	9.97	14.21	149	0.01	tan color
1135	42.32	500	5.85	0.197	1008	3.07	13.97	136	0.01	tan tint/color
1140	42.32	500	5.82	0.196	346	2.16	14.07	138	0.01	tan color
1145	42.30	450	5.82	0.194	167	2.38	14.34	142	0.01	tan tint
1150	42.30	450	5.81	0.192	84.8	2.99	14.28	150	0.01	tan tint
1155	42.30	450	5.80	0.192	60.8	2.87	14.14	153	0.01	tan tint (5 gal)
1200	42.30	450	5.79	0.190	38.2	3.00	14.23	155	0.01	clear
1205	42.30	400	5.79	0.190	30.9	3.05	14.15	156	0.01	clear
1210	42.30	400	5.79	0.189	24.9	3.54	13.89	159	0.01	clear
1215	42.30	400	5.77	0.187	22.8	3.82	13.77	161	0.01	clear
1220	42.30	400	5.78	0.186	17.3	3.59	13.85	162	0.01	clear
1225	42.30	400	5.77	0.186	16.5	3.76	13.86	164	0.01	clear
1230	42.30	400	5.77	0.186	12.2	3.65	13.96	166	0.01	clear (8.5 gal)
1232	Collect sample									

SIGNATURE(S): [Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW307D-01182012

Sample Location: BPS1-TT-MW307D

Sampled By: J. Birkett

C.O.C. No.: _____

Type of Sample:

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>1-18-12</u>	Color (Visual): <u>clear</u>	pH (S.U.): <u>6.56</u>	S.C. (mS/cm): <u>0.203</u>	Temp. (°C): <u>13.94</u>	Turbidity (NTU): <u>10.44</u>	DO (mg/l): <u>4.39</u>	Salinity (%): <u>0.01</u>	ORP (mV): <u>106</u>
Time: <u>1042</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date: <u>1-18-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>---</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>286</u>								
Static Water Level (WL): <u>42.62</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>0940</u>								
End Purge (hrs): <u>1042</u>								
Total Purge Time (min): <u>62</u>								
Total Vol. Purged (gal/L): <u>3 gal</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	Yes 3
PCBs	--	2 1-L amber glass vials	Yes 2
Hexavalent Chromium	--	1 250-mL plastic bottle	No
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	Yes 1
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	No
TOC	H2SO4	3 40-mL amber glass vials	No

OBSERVATIONS / NOTES:

No stains or odors
 Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.0mg/L

Circle if Applicable:

MS/MSD

Duplicate ID No.: _____

Signature(s):



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: ^{307D} BPSI-TT-MW307D
DATE: 1-18-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments
0940	42.62									
0945	42.67	425	5.85	0.222	8.85	7.09	12.79	239	0.01	clear
0950	42.67	425	6.25	0.211	48.6	5.73	13.09	117	0.01	clear
0955	42.67	425	6.35	0.206	62.3	5.14	12.90	92	0.01	faint tint
1000	42.67	425	6.41	0.203	43.3	4.47	13.34	87	0.01	clear
1005	42.67	425	6.45	0.203	48.0	4.99	13.60	88	0.01	clear
1010	42.67	425	6.48	0.203	31.6	4.86	13.39	90	0.01	clear
1015	42.67	425	6.51	0.203	25.2	4.36	13.83	96	0.01	clear 5 gal
1020	42.67	425	6.52	0.203	17.6	4.54	13.56	97	0.01	clear
1025	42.67	425	6.53	0.203	14.7	4.35	13.70	102	0.01	clear
1030	42.67	425	6.53	0.202	16.0	4.67	13.89	105	0.01	clear
1035	42.67	425	6.55	0.203	11.5	4.41	13.72	106	0.01	clear
1040	42.67	425	6.56	0.203	10.44	4.39	13.94	106	0.01	clear 8 gal
1042	Collect sample									

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1Sample ID No.: BPS1-TT-MW308# 01162012Project No.: 112G02230Sample Location: BPS1-TT-MW308# Domestic Well DataSampled By: VAS Monitoring Well Data

C.O.C. No.: _____

 Other Well Type: _____

Type of Sample:

 QA Sample Type: _____ Low Concentration High Concentration

SAMPLING DATA:

Date:	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
<u>1-16-12</u>	<u>clear</u>	<u>6.16</u>	<u>0.283</u>	<u>13.85</u>	<u>4.9</u>	<u>9.67</u>	<u>-</u>	<u>244</u>
Time: <u>1605</u>								
Method: <u>Low Flow - Grundfos</u>								

PURGE DATA:

Date:	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
<u>1-16-12</u>								
Method: <u>Low Flow - Grundfos</u>								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>64'</u>								
Static Water Level (WL): <u>55.24'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1510</u>								
End Purge (hrs): <u>1605</u>								
Total Purge Time (min): <u>55</u>								
Total Vol. Purged (gal/L): <u>6.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>7</u>
PCBs	--	2 1-L amber glass vials	<u>6</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>3</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom

Hexavalent Chromium Test Kit Result: 0.00 mg/L

Circle if Applicable:

MS/MSD

(yes)

Duplicate ID No.: _____

Signature(s):

VAS



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPSI-TT-MW308~~4~~
DATE: 1-16-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1500	55.24	-	-	-	-	-	-	-	-	Initial
1510	55.25	400	6.12	0.292	747	11.20	12.49	237	-	cloudy (Brown)
1515	55.25	400	6.12	0.291	194	11.04	12.95	237	-	" "
1520	55.25	400	6.13	0.297	65.8	10.73	13.40	238	-	Slight Tint (Tan)
1525	55.25	400	6.14	0.295	32.9	10.41	13.86	239	-	" " "
1530	55.25	400	6.15	0.290	24.0	10.36	13.84	238	-	" " "
1535	55.25	400	6.17	0.288	17.3	10.32	13.88	237	-	clear
1540	55.25	400	6.16	0.287	11.6	10.27	13.82	239	-	clear
1545	55.25	400	6.16	0.286	8.45	10.20	13.79	241	-	clear
1550	55.25	400	6.16	0.283	7.0	9.99	13.85	241	-	clear
1555	55.25	400	6.16	0.284	6.4	9.90	13.84	242	-	clear
1600	55.25	400	6.16	0.283	5.8	9.69	13.87	243	-	clear
1605	55.25	400	6.16	0.283	4.9	9.67	13.85	244	-	clear - collect sample

SIGNATURE(S):



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
 Project No.: 112G02230

Sample ID No.: BPS1-TT-MW308I-01162012

Sample Location: BPS1-TT-MW308I

Sampled By: VAS

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

Type of Sample:

- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>1-16-12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	ORP (mV)
Time: <u>1440</u>	<u>clear</u>	<u>5.98</u>	<u>0.312</u>	<u>14.29</u>	<u>7.2</u>	<u>4.11</u>	<u>-</u>	<u>241</u>
Method: Low Flow - Grundfos								

PURGE DATA:

Date: <u>1-16-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material Type: <u>2" Schedule 40 PVC</u>	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>166'</u>								
Static Water Level (WL): <u>55.69'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1330</u>								
End Purge (hrs): <u>1440</u>								
Total Purge Time (min): <u>70</u>								
Total Vol. Purged (gal/L): <u>7.5</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>1</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals ~2 feet off bottom
 Hexavalent Chromium Test Kit Result : 0.00 mg/L

Circle if Applicable:		Signature(s): <u>VAS</u>
MS/MSD <u>-</u>	Duplicate ID No.: <u>-</u>	



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME: NWIRP Bethpage Site 1
PROJECT NUMBER: 112G02230

WELL ID.: BPS1-TT-MW308I
DATE: 1-16-12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP mV	Salinity % or ppt	Comments
1315	55.69	-	-	-	-	-	-	-	-	Initial
1330	55.71	425	6.16	0.249	617	11.02	11.03	255	-	cloudy (Gry-Brn)
1335	55.71	425	6.07	0.272	844	9.91	12.25	230	-	cloudy (Brown)
1340	55.71	425	5.96	0.319	403	8.66	14.77	216	-	cloudy (Brown)
1345	55.71	425	5.94	0.319	226	6.39	14.28	220	-	" "
1350	55.71	425	5.91	0.318	138	4.97	13.99	223	-	Tinted (Gry-Ten)
1355	55.71	425	5.91	0.319	80.4	4.96	13.98	225	-	Slight Tint (Gry)
1400	55.71	425	5.90	0.319	69.3	4.93	13.97	227	-	" "
1405	55.71	425	5.90	0.316	40.4	4.60	14.02	229	-	very slight Tint (Gry)
1410	55.71	425	5.90	0.315	29.2	4.38	14.06	231	-	" " " "
1415	55.71	425	5.90	0.314	21.5	4.29	14.09	234	-	clear
1420	55.71	425	5.90	0.314	15.3	4.21	14.12	238	-	clear
1425	55.71	425	5.89	0.313	9.6	4.19	14.17	239	-	clear
1430	55.71	425	5.89	0.313	8.7	4.17	14.22	240	-	clear
1435	55.71	425	5.88	0.313	7.9	4.14	14.26	241	-	clear
1440	55.71	425	5.88	0.312	7.2	4.11	14.29	241	-	clear - collect sample

SIGNATURE(S): [Signature]



GROUNDWATER SAMPLE LOG SHEET

Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW3030-01162012

Sample Location: BPS1-TT-MW3030

Sampled By: VAS

C.O.C. No.: _____

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
 - High Concentration

SAMPLING DATA:

Date: <u>1-16-12</u>	Color	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Time: <u>1230</u>	(Visual)	(S.U.)	(mS/cm)	(°C)	(NTU)	(mg/l)	(%)	(mV)
Method: Low Flow - Grundfos	<u>clear</u>	<u>5.99</u>	<u>0.170</u>	<u>14.51</u>	<u>6.5</u>	<u>5.24</u>	<u>-</u>	<u>221</u>

PURGE DATA:

Date: <u>1-16-12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	ORP
Method: Low Flow - Grundfos								
Monitor Reading (ppm): <u>0.0</u>								
Well Casing Diameter & Material								
Type: <u>2</u> " Schedule 40 PVC	See Low Flow Purge Sheet for Details							
Total Well Depth (TD): <u>260'</u>								
Static Water Level (WL): <u>53.30'</u>								
One Casing Volume(gal/L): <u>--</u>								
Start Purge (hrs): <u>1115</u>								
End Purge (hrs): <u>1230</u>								
Total Purge Time (min): <u>75</u>								
Total Vol. Purged (gal/L): <u>7.0</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40-mL clear glass vials	<u>3</u>
PCBs	--	2 1-L amber glass vials	<u>2</u>
Hexavalent Chromium	--	1 250-mL plastic bottle	<u>-</u>
Total Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>1</u>
Filtered Metals (Total Cr and Fe)	HNO3	1 500-mL plastic bottle	<u>-</u>
TOC	H2SO4	3 40-mL amber glass vials	<u>-</u>

OBSERVATIONS / NOTES:

Pump set within screened intervals -2 feet off bottom
 Hexavalent Chromium Test Kit Result: 0.01 mg/L

Circle if Applicable:

MS/MSD

-

Duplicate ID No.:

-

Signature(s):



GROUNDWATER SAMPLE LOG SHEET

- 0110 2012

Project Site Name: SITE 1 PCB INVES.
Project No.: 112902230

Sample ID No.: BPS1-TT-MW095
Sample Location: BPS1-TT-MW095
Sampled By: SJC
C.O.C. No.: 1106

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

- Type of Sample:
- Low Concentration
- High Concentration

SAMPLING DATA:

Date: <u>1/10/12</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: <u>1500</u>	<u>CLEAR</u>	<u>6.52</u>	<u>317</u>	<u>17.11</u>	<u>41</u>	<u>3.54</u>	<u>02</u>	<u>155</u>
Method: <u>SUB PUMP</u>								

PURGE DATA:

Date: <u>1/10/12</u>	Volume	pH	S.C.	Temp.	Turbidity	DO	Salinity	Other
Method: <u>2" SUB</u>								
Monitor Reading (ppm): <u>0</u>								
Well Casing Diameter & Material Type: <u>2" PVC</u>								
Total Well Depth (TD): <u>65.00</u> TPVC								
Static Water Level (WL): <u>56.00</u> TPVC								
One Casing Volume (gal/L):								
Start Purge (hrs): <u>1230</u>								
End Purge (hrs): <u>1500</u>								
Total Purge Time (min): <u>150</u>								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
VOC ^s	HCL/4°C	3- 40 ml VIALS	✓
PCB ^s	4°C	2- 1L AMBER	✓
TAL METALS (T)	HNO ₃ /4°C	1- 250 ml PE (500ml)	✓
TAL METALS (D)	HNO ₃ /4°C	1- 250ml PE (500 mL)	✓
HEX CR.	4°C	1- 250ml PE	✓
TOC	H ₂ SO ₄ /4°C	3- 40 ml VIALS	NO
		(8) TOTAL	

OBSERVATIONS / NOTES:

SCREEN 53-63 BGS. AVE FLOW 300 ml/min

- Repurge well on 1-24-12 to conduct Hexavalent Chromium Test Kit analysis. well purged for 60 minutes at 400 ML/min.

Hexavalent Chromium Test Kit Result → 0.01 mg/L

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

SJ Conte



LOW FLOW PURGE DATA SHEET

PROJECT SITE NAME:
PROJECT NUMBER:

SITE 1 PCB INVES
112G02230

WELL ID:
DATE:

MW
BPS1-TT-3095
1/10/12

Time (Hrs.)	Water Level (Ft. below TOC)	Flow (mL/Min.)	pH (S.U.)	S. Cond. (mS/cm)	Turb. (NTU)	DO (mg/L)	Temp. (Celcius)	ORP (mV)	Salinity (% or ppt)	Comments	
1200	56.00	~200	—	—	—	—	—	—	—		
1215	56.00	"	—	—	—	—	—	—	—		
* 1230	56.00	~300	—	—	—	—	—	—	—	PUMP ADJUSTMENT START *	
1245	56.00	"	6.50	.324	461	4.01	17.17	157	.02%	SL. TURBID	
1300	56.02	"	6.50	.322	189	3.51	17.10	153	.02%	" "	
1315	56.02	"	6.52	.320	115	2.75	16.59	163	.02%	" "	
1330	56.02	"	6.54	.319	174	3.86	17.37	155	.02%	" "	
1345	56.02	"	6.53	.321	115	3.54	17.18	162	.02%	" "	
1400	56.02	"	6.52	.321	60	3.39	17.33	160	—	BECOMES CLEAR	
1415	56.02	"	6.55	.319	48	3.56	18.10	150	.02%	" "	
1430	56.02	"	6.53	.317	61	3.59	16.92	161	.02%	" "	
1445	56.02	"	6.51	.317	45	3.61	17.10	163	.02%	" "	
1500	56.02	"	6.52	.317	41	3.54	17.11	155	.02%	" "	
SAMPLE @ 1500 HRS.											
								FLOW RATE VARY 200 → 500 ml/min.			
								DIFFICULT TO ADJUST TO 200 ml/min.			
								170 → 190 HZ ON BOX			

SIGNATURE(S): SJ Contri



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

01112012

Project Site Name: SITE 1 PCB INVESTIGATION
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW309I-
Sample Location: BPS1-TT-MW 309I
Sampled By: SJC

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

C.O.C. No.: 1107
Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: SAL.

Date: <u>1/11/12</u>	Color Visual	pH Standard	S.C. mS/cm	Temp. Degrees C	Turbidity NTU	DO mg/l	ORP mV	Other NA
Time: <u>1000</u>	<u>CLEAR</u>	<u>5.62</u>	<u>312</u>	<u>15.48</u>	<u>5.91</u>	<u>5.58</u>	<u>213</u>	<u>0.01 %</u>
Method: <u>2" GRUNDFOS</u>								

PURGE DATA:

Date: <u>1/11/12</u>								
Method: <u>2" GRUNDFOS</u>								
Monitor Reading (ppm):								
Well Casing Diameter & Material Type: <u>2" φ PVC</u>								
Total Well Depth (TD): <u>~172'</u>	<u>TPVC</u>							
Static Water Level (WL): <u>56.70</u>	<u>TPVC</u>							
One Casing Volume(gal/L):								
Start Purge (hrs): <u>0900</u>								
End Purge (hrs): <u>1000</u>								
Total Purge Time (min): <u>60</u>								
Total Vol. Purged (gal/L):								

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml Glass Vials	✓
PCBs	4 DEG C	2-1L Amber	✓
TAL METALS TOT Cr and Fe (Total)	HNO3/4 DEG C	1-500ml PE	✓
TAL METALS TOT Cr and Fe (Dissolved)	HNO3/4 DEG C	1-500ml PE	—
HEX CHROME	4 DEG C	1-250ml PE	✓
TOC	H2SO4/4 DEG C	3-40ml Amber Glass Vials	—

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

1-24-12 Hex Chrom test kit result = 0.12 mg/L
0950 w/o acid in blank
= 0.06 mg/L with acid in blank

Circle if Applicable:		Signature(s): <u>SJ Conti</u>
MS/MSD	Duplicate ID No.:	



Tetra Tech, Inc.

GROUNDWATER SAMPLE LOG SHEET

0112012

Project Site Name: SITE 1 PCB INVESTIGATION
Project No.: 112G02230

Sample ID No.: BPS1-TT-MW 309D -
Sample Location: BPS1-TT-MW
Sampled By: SJC

- Domestic Well Data
- Monitoring Well Data
- Other Well Type: _____
- QA Sample Type: _____

C.O.C. No.: 1107
Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA: SAL

Date:	<u>1/11/12</u>	Color		pH		S.C.		Temp.		Turbidity		DO		ORP		Other	
Time:	<u>1410</u>	Visual		Standard		mS/cm		Degrees C		NTU		mg/l		mV		NA	
Method:	<u>2" GRUNDFOS</u>	<u>V. SL</u>		<u>6.00</u>		<u>0.267</u>		<u>15.10</u>		<u>62.8</u>		<u>0.00</u>		<u>124</u>		<u>0.01%</u>	

PURGE DATA: TURBID

Date:	<u>1/11/12</u>																
Method:	<u>2" GRUNDFOS</u>																
Monitor Reading (ppm):	<u>—</u>																
Well Casing Diameter & Material Type:	<u>2" φ PVC</u>																
Total Well Depth (TD):	<u>~264</u>	<u>TPVC</u>															
Static Water Level (WL):	<u>56.59</u>	<u>TPVC</u>															
One Casing Volume (gal/L):																	
Start Purge (hrs):	<u>1200</u>																
End Purge (hrs):	<u>1410</u>																
Total Purge Time (min):	<u>130</u>																
Total Vol. Purged (gal/L):																	

SAMPLE COLLECTION INFORMATION: Strike thru analysis not required

Analysis	Preservative	Container Requirements	Collected
VOCs	HCL/4 DEG C	3- 40ml Glass Vials	<input checked="" type="checkbox"/>
PCBs	4 DEG C	2-1L Amber	<input checked="" type="checkbox"/>
TAL METALS TOT Cr and Fe (Total)	HNO3/4 DEG C	1-500ml PE	<input checked="" type="checkbox"/>
TAL METALS TOT Cr and Fe (Dissolved)	HNO3/4 DEG C	1-500ml PE	<input checked="" type="checkbox"/>
HEX CHROME	4 DEG C	1-250ml PE	<input checked="" type="checkbox"/>
TOC	H2SO4/4 DEG C	3-40ml Amber Glass Vials	<input checked="" type="checkbox"/>

OBSERVATIONS / NOTES:

2" MW = 0.163 gal/ft

252-262 SCREEN BGS

1-24-11-0830 Hex Chrom test kit result = 0.00 mg/L
Jed Bala

Circle if Applicable:		Signature(s): <i>S. Conti</i>
MS/MSD	Duplicate ID No.:	

QA Sample Logs



Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-TB01-01162012
 Project Number: 112G02230 Sampled By: JB/Lab
 Sample Location: Site 4 C.O.C. Number: _____
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA: **WATER SOURCE:**

Date: 1-16-12 Laboratory Prepared Tap
 Time: 0935 Purchased Fire Hydrant
 Method: Lab prepared Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water): **RINSATE INFORMATION (If Applicable):**

Product Name: _____ Media Type: _____
 Supplier: _____ Equipment Used: _____
 Manufacturer: _____ Equipment Type: _____
 Order Number: _____ Dedicated
 Lot Number: _____ Reusable
 Expiration Date: _____

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	<u>2</u> 40-mL clear glass vials	<u>YES</u> / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	YES / NO
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	YES / NO
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	YES / NO
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / NO

OBSERVATIONS / NOTES:

Signature(s):



Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-TB02-01182012
 Project Number: 112G02230 Sampled By: Lab
 Sample Location: _____ C.O.C. Number: _____
 QA Sample Type: _____
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:

WATER SOURCE:

Date: 1-18-2012
 Time: 0800
 Method: Lab prepared

Laboratory Prepared Tap
 Purchased Fire Hydrant
 Other _____

**PURCHASED WATER INFORMATION
(If Applicable as Source or Rinsate Water):**

**RINSATE INFORMATION
(If Applicable):**


Product Name: _____
 Supplier: _____
 Manufacturer: _____
 Order Number: _____
 Lot Number: _____
 Expiration Date: _____

Media Type: _____
 Equipment Used: _____
 Equipment Type: _____
 Dedicated
 Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40-mL clear glass vials	YES / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	YES / NO
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	YES / NO
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	YES / NO
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / NO

OBSERVATIONS / NOTES:

Signature(s):




Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-TB03-01192012
 Project Number: 112G02230 Sampled By: JB/Lab
 Sample Location: Lab prep'd C.O.C. Number: _____
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA: **WATER SOURCE:**

Date: 1-19-12 Laboratory Prepared Tap
 Time: 0745 Purchased Fire Hydrant
 Method: Lab prepared Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water): **RINSATE INFORMATION (If Applicable):**

Product Name: _____ Media Type: _____
 Supplier: _____ Equipment Used: _____
 Manufacturer: _____ Equipment Type: _____
 Order Number: _____ Dedicated
 Lot Number: _____ Reusable
 Expiration Date: _____

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	<u>2</u> 40-mL clear glass vials	<u>YES</u> / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	YES / <u>NO</u>
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	YES / <u>NO</u>
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	YES / <u>NO</u>
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / <u>NO</u>

OBSERVATIONS / NOTES:

Signature(s):



Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-TB04-01202012
 Project Number: 112G02230 Sampled By: JB
 Sample Location: Site A / Lab C.O.C. Number: _____
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:

Date: 10-20-12 Laboratory Prepared Tap
 Time: 0730 Purchased Fire Hydrant
 Method: Lab prepared Other _____

**PURCHASED WATER INFORMATION
(If Applicable as Source or Rinsate Water):**

Product Name: _____
 Supplier: _____
 Manufacturer: _____
 Order Number: _____
 Lot Number: _____
 Expiration Date: _____

**RINSATE INFORMATION
(If Applicable):**

Media Type: _____
 Equipment Used: _____
 Equipment Type:
 Dedicated
 Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	<u>2</u> 40-mL clear glass vials	<u>YES</u> / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	YES / <u>NO</u>
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	YES / <u>NO</u>
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	YES / <u>NO</u>
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / <u>NO</u>

OBSERVATIONS / NOTES:

Signature(s):



QA SAMPLE LOG SHEET

Project Site Name: NW18 Bethpage Sample ID Number: BPSI-TB05-01232012
 Project Number: 112G02230 Sampled By: JB/Lab
 Sample Location: Site 4/Lab C.O.C. Number: _____
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:

Date: 1-23-12
 Time: 0730
 Method: Lab prepared

WATER SOURCE:

Laboratory Prepared Tap
 Purchased Fire Hydrant
 Other _____

**PURCHASED WATER INFORMATION
(If Applicable as Source or Rinsate Water):**

Product Name: _____
 Supplier: _____
 Manufacturer: _____
 Order Number: _____
 Lot Number: _____
 Expiration Date: _____

**RINSATE INFORMATION
(If Applicable):**

Media Type: _____
 Equipment Used: _____
 Equipment Type:
 Dedicated
 Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	<u>2 40 mL glass vials</u>	<input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO
Semivolatiles	Cool 4°C		YES / <input checked="" type="checkbox"/> NO
Pesticide / PCB	Cool 4°C		YES / <input checked="" type="checkbox"/> NO
Metals	Cool 4°C & HNO ₃		YES / <input checked="" type="checkbox"/> NO
Cyanide	Cool 4°C & NaOH		YES / <input checked="" type="checkbox"/> NO

OBSERVATIONS / NOTES:

Signature(s):



Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-FB01-01182012
 Project Number: 112G02230 Sampled By: VAS and JB
 Sample Location: Field office C.O.C. Number: _____
 QA Sample Type:

- Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA: **WATER SOURCE:**

Date: 1-18-12 Laboratory Prepared Tap
 Time: 0810 Purchased Fire Hydrant
 Method: Direct Pour Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water): **RINSATE INFORMATION (If Applicable):**

Product Name: Distilled Water Media Type: _____
 Supplier: Stop & Shop Equipment Used: _____
 Manufacturer: DS waters of America Equipment Type: _____
 Order Number: - Dedicated
 Lot Number: - Reusable
 Expiration Date: 1-12-14

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40-mL clear glass vials	<input checked="" type="checkbox"/> YES / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	<input checked="" type="checkbox"/> YES / NO
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	<input checked="" type="checkbox"/> YES / NO
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	<input checked="" type="checkbox"/> YES / NO
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / <input checked="" type="checkbox"/> NO
<u>TAL Metals (distilled)</u>	<u>Cool 4°C + HNO₃</u>	<u>1 500 mL plastic</u>	<u>yes</u>

OBSERVATIONS / NOTES:

Signature(s): 



Project Site Name: NWIRP Bethpage
 Project Number: 112602230
 Sample Location: Main Building near
 QA Sample Type: Grate

Sample ID Number: BPS1-FB02-01232012
 Sampled By: J. Birkeff
 C.O.C. Number: _____

- Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:

Date: 1-23-12
 Time: 1430
 Method: Direct Pour

WATER SOURCE:

- Laboratory Prepared Tap
 Purchased Fire Hydrant
 Other _____

PURCHASED WATER INFORMATION
 (If Applicable as Source or Rinsate Water):

Product Name: _____
 Supplier: _____
 Manufacturer: _____
 Order Number: _____
 Lot Number: _____
 Expiration Date: _____

RINSATE INFORMATION
 (If Applicable):

Media Type: _____
 Equipment Used: _____
 Equipment Type:
 Dedicated
 Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40 mL glass vials	YES/NO
Semivolatiles <u>Hexavalent Chrom.</u>	Cool 4°C	1 250 mL poly bottle	YES/NO
Pesticide / PCB	Cool 4°C	2 1 L amber glass bottles	YES/NO
Metals <u>(Fe & Cr)</u>	Cool 4°C & HNO ₃	1 500 mL poly bottle	YES/NO
Cyanide	Cool 4°C & NaOH		YES <u>NO</u>

OBSERVATIONS / NOTES:

Direct fill from hose in main building.
 Water used for decon.
 Hex. Chrom. Test Kit Result: 0.00mg/L

Signature(s):

Jal Bahar



Project Site Name: NWIRP Bethpage Site 1 Sample ID Number: BPS1-RB01-01182012
 Project Number: 112G02230 Sampled By: VAS and JB
 Sample Location: Field office C.O.C. Number: _____
 QA Sample Type:
 Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____


SAMPLING DATA:	WATER SOURCE:
Date: <u>1-18-12</u> Time: <u>0820</u> Method: <u>Direct pour</u>	<input type="checkbox"/> Laboratory Prepared <input type="checkbox"/> Tap <input checked="" type="checkbox"/> Purchased <input type="checkbox"/> Fire Hydrant <input type="checkbox"/> Other _____

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):	RINSATE INFORMATION (If Applicable):
Product Name: <u>Distilled Water</u> Supplier: <u>Stop + Shop</u> Manufacturer: <u>DeWaters of America</u> Order Number: _____ Lot Number: <u>+</u> Expiration Date: <u>1-12-14</u>	Media Type: <u>Aqueous</u> Equipment Used: <u>Redi-Flow pump</u> Equipment Type: <input type="checkbox"/> Dedicated <input checked="" type="checkbox"/> Reusable

SAMPLE COLLECTION INFORMATION:			
Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40-mL clear glass vials	<u>YES</u> / NO
PCBs	Cool 4°C	2 1-L amber glass bottles	<u>YES</u> / NO
TAL Metals	Cool 4°C & HNO ₃	1 500-mL plastic bottle	<u>YES</u> / NO
Hexavalent Chromium	Cool 4°C	1 250-mL plastic bottle	<u>YES</u> / NO
TOC	Cool 4°C & H ₂ SO ₄	3 40-mL amber glass vials	YES / <u>NO</u>
<u>TAL Metals (dissolved)</u>	<u>Cool 4°C + HNO₃</u>	<u>1 500 ml plastic</u>	<u>yes</u>

OBSERVATIONS / NOTES:

- water poured over cleaned Redi-Flow pump directly into sample bottles

Signature(s): 



Project Site Name: NWIRP Bethpage Sample ID Number: BPSI-RB02-01232012
 Project Number: 112602230 Sampled By: J. Birkett
 Sample Location: _____ C.O.C. Number: _____
 QA Sample Type: _____

Trip Blank Rinsate Blank
 Source Water Blank Other Blank _____

SAMPLING DATA:

Date: 1-23-12
 Time: 1330
 Method: Direct pour over pump

WATER SOURCE:

Laboratory Prepared Tap
 Purchased Fire Hydrant
 Other _____

PURCHASED WATER INFORMATION
(If Applicable as Source or Rinsate Water):

Product Name: Arcadia Distilled Water
 Supplier: Stop N Shop
 Manufacturer: DS Waters of America Inc.
 Order Number: -
 Lot Number: _____
 Expiration Date: 1-12-14

RINSATE INFORMATION
(If Applicable):

Media Type: Aqueous
 Equipment Used: Grundfos Rediflo
 Equipment Type:
 Dedicated
 Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl	3 40 mL glass vials	YES/NO
Semivolatiles PCBs	Cool 4°C	2 1 L Amber bottles	YES/NO
Pesticide/PCB	Cool 4°C		YES/NO
Metals (Fe & Cr)	Cool 4°C & HNO ₃	1 25 500mL poly bottle	YES/NO
Cyanide	Cool 4°C & NaOH		YES/NO
Hexavalent Chrom	Cool 4°C	1 250 ^{mL} poly bottle	yes

OBSERVATIONS / NOTES:

Poured DI water over deconned grundfos
 Hex Chrom Test Kit Result: 0.00mg/L

Signature(s):

Groundwater Level Measurement Sheets



Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Bethpage Site 1 GW Sampling **Project No.:** 112G02230
Location: Site 1 - Former Drum Marshalling Area **Personnel:** J. Birkett, V. Shickora
Weather Conditions: High 40° sunny breezy **Measuring Device:** _____
Tidally Influenced: Yes ___ No X **Remarks:** _____

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments
BPS1-FW-MW01	1-24-12	1450		63.47	52.25			
BPS1-FW-MW02		1448		64.18	52.89			
BPS1-FW-MW03		1446		67	51.39			
BPS1-HN-MW-29I		1545		130.5	42.15			
BPS1-HN-MW-29D		1546			42.33			
BPS1-TT-MW301S		1438		62	51.24			
BPS1-TT-MW301I		1436		141	51.81 51.08			
BPS1-TT-MW301D		1435		221	51.08 51.81			
BPS1-TT-MW302S		1504		53.65	42.38			
BPS1-TT-MW302I1		1507		121	42.43			
BPS1-TT-MW302I2		1501		151	42.69			
BPS1-TT-MW302D		1500		218	42.96			
BPS1-TT-MW303S		1512		55.84	42.13			
BPS1-TT-MW303I1		1510		106	42.50			
BPS1-TT-MW303I2		1508		157	42.84			
BPS1-TT-MW303D		1506		228	43.01			
BPS1-TT-MW304S		1544		54	46.03			
BPS1-TT-MW304I1		1543		113	46.26			
BPS1-TT-MW304I2		1541		150.3	46.45			
BPS1-TT-MW304D		1540		191	46.60			
BPS1-TT-MW305S		1514			42.96			
BPS1-TT-MW305I		1516			43.55			
BPS1-TT-MW305D		1517			43.78			
BPS1-TT-MW306S		1530			44.90			Slip coupling loose but tightened
BPS1-TT-MW306I	✓	1528			45.34			

* All measurements to the nearest 0.01 foot



Tetra Tech NUS, Inc.

GROUNDWATER LEVEL MEASUREMENT SHEET

Project Name: NWIRP Bethpage Site 1 GW Sampling **Project No.:** 112G02230

Location: Site 1 - Former Drum Marshalling Area **Personnel:** J. Birkett, V. Shickora

Weather Conditions: _____ **Measuring Device:** _____

Tidally Influenced: Yes ___ No X **Remarks:** _____

Well or Piezometer Number	Date	Time	Elevation of Reference Point (feet)*	Total Well Depth (feet)*	Water Level Indicator Reading (feet)*	Thickness of Free Product (feet)*	Groundwater Elevation (feet)*	Comments	
BPS1-TT-MW306D	1-24-12	1526			46.04				
BPS1-TT-MW307S	↓	1537			47.81				
BPS1-TT-MW307I		1535		200	42.21				
BPS1-TT-MW307D		1533			42.66				
BPS1-TT-MW308S		1426		67	55.54				
BPS1-TT-MW308I		1427		170	55.70				
BPS1-TT-MW308D		1428		260	56.27				
BPS1-TT-MW309S		1420		67	55.82				
BPS1-TT-MW309I		1421		177	56.45				
BPS1-TT-MW309D		1422		267	56.39				
BPS1-RA-MW02		1442			47.79				
BPS1-RA-MW04			Could not		locate				South of Plant 3 under sand+gravel

* All measurements to the nearest 0.01 foot

Surface Water Sample Log Sheets



Project Site Name: NWIRP Bethpage Site 1
Project No.: 112G-00230

Sample ID No.: BPSI-SW3001
Sample Location: BPSI-SW3001
Sampled By: J. Ferguson
C.O.C. No.: _____

- Stream
- Spring
- Pond
- Lake
- Other: Storm Water Outfall
- QA Sample Type: _____

Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>10-19-2011</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP (mV)
Time: <u>1100</u>	<u>Clear</u>	<u>6.04</u>	<u>0030</u>	<u>18.16</u>	<u>20.5</u>	<u>4.95</u>	<u>—</u>	<u>216</u>
Depth: <u>—</u>								
Method: <u>Direct Pour</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
<u>TCL VOC</u>	<u>HCl</u>	<u>3 40 mL glass vials</u>	<u>yes</u>
<u>PCBs</u>	<u>—</u>	<u>2 1 L Amber bottles</u>	<u>yes</u>
<u>Total/Hexavalent Chromium</u>	<u>HNO₃</u>	<u>1 500mL poly bottle</u>	<u>yes</u>

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

Signature(s):

MS/MSD

Duplicate ID No.:

[Signature]
For Jim Ferguson



Project Site Name: NWIRP Bethpage Site 1
Project No.: 112602230

Sample ID No.: BPS1-SW3002
Sample Location: BPS1-SW3002
Sampled By: J. Ferguson
C.O.C. No.: _____

- Stream
- Spring
- Pond
- Lake
- Other: Storm Water Outfall
- QA Sample Type: _____

Type of Sample:
 Low Concentration
 High Concentration

SAMPLING DATA:

Date: <u>10-19-2011</u>	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP (mv)
Time: <u>1130</u>	Clear	6.65	0.245	17.67	0.0	5.03	-	192
Depth: <u>—</u>								
Method: <u>Direct Pour</u>								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
TCL VOCs	HCl	3 40 mL glass vials	yes
PCBs	—	2 1L amber bottle	yes
Total/Hexavalent Chromium	HNO ₃	1 500 mL poly bottle	yes

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

—

—

Signature(s):

Jim Ferguson
for Jim Ferguson

Appendix B

Survey Data



BANC3, Inc.
Consulting Engineers
www.banc3.com

- Engineers
- Surveyors
- Construction Managers
- Information Technology

300 Alexander Park, Suite 350
Princeton, NJ 08540
609.759.1900 phone
609.919.9022 fax

February 14, 2012

Robert Sok, P.G.
Project Manager / Geologist
Tetra Tech NUS, Inc.
Twin Oaks I, Suite 309
5700 Lake Wright Drive
Norfolk, VA 23502

Re.: Survey Report
US Navy – NWIRP
Bethpage, New York
Subcontract # 1080854
Job # 112G02230 – CTO WE44
BANC3 Project # 2000215-04

Dear Mr. Sok,

Per your request, I have enclosed three signed and sealed copies of our Survey Report dated February 14, 2012 for the above captioned project. Two copies have been bound and one copy is provided unbound, for your use.

We appreciate the opportunity to work with Tetra Tech NUS, Inc. and the US Navy. Please contact me if you have any questions and/or require additional information.

Respectfully submitted,

Thomas F. Miller, PLS, PP



BANC3, Inc.
Consulting Engineers
www.banc3.com

- Engineers
- Surveyors
- Construction Managers
- Information Technology

300 Alexander Park, Suite 350
Princeton, NJ 08540
609.759.1900 phone
609.919.9022 fax

Survey Report
U.S. Navy – NWIRP
Bethpage, New York
Subcontract # 1080854
Job # 112G02230 – CTO WE44
BANC3 Project # 2000215-04
February 14, 2012



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February 14, 2012

Robert Sok, P.G.
Project Manager / Geologist
Tetra Tech NUS, Inc.
Twin Oaks I, Suite 309
5700 Lake Wright Drive
Norfolk, VA 23502

Re.: Survey Report
US Navy – NWIRP
Bethpage, New York
Subcontract # 1080854
Job # 112G02230 – CTO WE44
BANC3 Project # 2000215-04

Dear Mr. Sok,

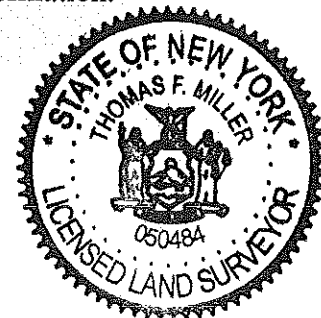
BANC3 Inc. is pleased to provide you with our completed Survey Report for the above referenced project.

BANC3 performed field surveys relative to the subject project to include Global Positioning Systems (GPS), conventional Total Station Surveys and differential leveling surveys. From the data, a table of Monitoring Well and Soil Boring Locations was prepared and included herein. The table includes control points utilized, locations and elevations of Monitoring Well cover, inner casing and adjacent ground where appropriate and Soil Boring locations and elevations. BANC3 performed field reconnaissance and locations of survey control markers tied National Geodetic Survey (NGS) monument designated as “15E 14N” (PID # KU5039) included herein. BANC3 verified the positioning and accuracy of the Monitoring Wells and Soil Borings through our ground field locations and redundant measurements of survey control points. All locations are referenced to New York State Plane Coordinates (Long Island Zone), North American Datum of 1983 and elevations referenced to North American Vertical Datum of 1988. (NAD83, NAVD 88).

We appreciate the opportunity to work with your organization and the US Navy. Please contact me if you have any questions and/or require additional information.

Respectfully submitted,

Thomas F. Miller, PLS, PP
State of New York Professional Land Surveyor #050484



BETHPAGE, NEW YORK / JANUARY 26, 2012

MONITORING WELL & SOIL VAPOR EXTRACTION WELL LOCATIONS

DESCRIPTION	GRID NORTH (US FT)	GRID EAST (US FT)	ELEV (US FT)	PT #
GPS MON	214296.002	1125124.594	122.84	15E14N
CIP / CONTROL POINT	214063.933	1123668.505	123.38	1
MW301S	214560.160	1124865.210	126.40	1574
INNER CASING	214560.546	1124865.178	126.00	1575
GROUND	214559.968	1124864.936	126.38	1576
MW301D	214562.161	1124880.995	126.33	1578
INNER CASING	214562.630	1124881.106	125.93	1579
GROUND	214561.885	1124881.124	126.32	1577
MW301I	214565.915	1124905.714	126.09	1580
INNER CASING	214566.352	1124906.082	125.56	1581
GROUND	214565.459	1124905.933	126.04	1582
MW305S	213411.314	1123930.003	116.49	1538
INNER CASING	213411.021	1123930.127	116.04	1539
GROUND	213409.185	1123930.184	116.52	1529
MW305D	213406.292	1123949.047	116.28	1534
INNER CASING	213405.975	1123949.183	115.94	1535
GROUND	213404.255	1123948.903	116.25	1531
MW305I	213408.673	1123939.648	116.43	1537
INNER CASING	213408.557	1123939.487	116.16	1536
GROUND	213406.936	1123939.665	116.38	1530
MW306S	213383.396	1124387.860	118.48	1552
INNER CASING	213383.550	1124387.814	117.82	1551
GROUND	213383.190	1124388.302	115.33	1550
MW306D	213381.032	1124409.879	118.62	1546
INNER CASING	213380.799	1124409.899	118.06	1545
GROUND	213380.768	1124410.251	115.59	1544

DESCRIPTION	GRID NORTH (US FT)	GRID EAST (US FT)	ELEV (US FT)	PT #
MW306I	213381.956	1124399.469	118.56	1548
INNER CASING	213382.124	1124399.458	117.76	1547
GROUND	213381.577	1124399.699	115.45	1549
MW307S	213350.889	1124902.305	114.58	1562
INNER CASING	213350.824	1124901.871	114.39	1563
GROUND	213351.290	1124900.960	114.59	1561
MW307D	213357.390	1124926.585	114.85	1568
INNER CASING	213357.307	1124926.918	114.42	1569
GROUND	213357.831	1124925.942	114.85	1567
MW307I	213353.948	1124915.179	114.65	1565
INNER CASING	213353.775	1124914.838	114.16	1564
GROUND	213354.844	1124915.305	114.67	1566
MW308S	214978.217	1124909.927	131.58	1589
INNER CASING	214978.065	1124909.900	131.05	1588
GROUND	214977.778	1124910.412	128.586	1587
MW308D	214965.058	1124935.523	131.61	1595
INNER CASING	214965.082	1124935.463	130.98	1594
GROUND	214964.782	1124934.963	128.78	1593
MW308I	214972.536	1124923.282	131.51	1592
INNER CASING	214972.484	1124923.261	130.73	1591
GROUND	214972.278	1124923.640	128.58	1590
MW309S	215211.896	1124997.760	132.45	1602
INNER CASING	215212.060	1124997.916	131.77	1601
GROUND	215212.026	1124997.416	129.41	1600
MW309D	215208.337	1125028.364	132.14	1608
INNER CASING	215208.441	1125028.421	131.52	1607
GROUND	215208.448	1125028.046	129.42	1606
MW309I	215209.976	1125016.064	132.36	1605
INNER CASING	215209.932	1125016.144	131.83	1604
GROUND	215210.375	1125015.580	129.44	1603

DESCRIPTION	GRID NORTH (US FT)	GRID EAST (US FT)	ELEV (US FT)	PT #
SVE-107D	213936.763	1124748.817	115.77	1501
INNER CASING	213936.904	1124749.376	115.49	1502
GROUND	213935.960	1124748.782	115.70	1500
SVE-108D	213957.882	1124515.465	117.43	1504
INNER CASING	213957.528	1124515.629	117.01	1503
GROUND	213958.809	1124514.989	117.27	1505
SVE-109D	213976.646	1124241.948	117.94	1507
INNER CASING	213976.388	1124242.354	117.49	1508
GROUND	213978.450	1124242.971	117.78	1506
SVE-110D	213991.041	1123998.401	117.04	1510
INNER CASING	213990.593	1123998.498	116.36	1509
GROUND	213991.920	1123998.760	116.88	1511
SVE-111D	214044.084	1123802.414	122.59	1513
INNER CASING	214043.723	1123802.430	122.01	1514
GROUND	214045.635	1123802.456	122.39	1512

BANC3

Tetra Tech - Bethpage, NY

16 June 2011

INPUT

Geographic, NAD83

OUTPUT

State Plane, NAD83
3104 - New York Long Island, U.S. Feet

15E14N (KU5039)

1/1

Latitude: 40 45 13.49016
Longitude: 073 29 29.50713

Northing/Y: 214296.001
Easting/X: 1125124.593

Convergence: 0 19 57.29260

Scale Factor: 0.999996308

Remark: Prepared by: Thomas F. Miller, PLS, PP

Corpscon v6.0.1, U.S. Army Corps of Engineers

DERIVATION OF ORTHOMETRIC HEIGHT OF NATIONAL GEODETIC SURVEY
MONUMENT 15E 14N (PID # KU5039)

“It is a straightforward procedure to algebraically subtract an interpolated geoid height, N, from a GPS ellipsoidal height, h, to obtain an orthometric height, H:

$$H = h - N^{1}$$

For NGS Monument 15E 14N:

H = Orthometric Height (to be determined)

h = Ellipsoidal Height (6.331 meters) Adjusted 02/10/07

N = Geoid Height (-31.11 meters)

or

H = 6.331m - (-31.11m)

H = 37.441m (or 122.84 feet)

¹ Converting GPS Height into NAVD88 Elevation with the GEOID96 Geoid Height Model, Dennis G. Milbert, Ph.D. and Dru A. Smith, Ph.D., National Geodetic Survey, NOAA

The NGS Data Sheet

See file [dsdata.txt](#) for more information about the datasheet.

```

DATABASE = NGSIDB , PROGRAM = datasheet95, VERSION = 7.87.5
1      National Geodetic Survey,  Retrieval Date = FEBRUARY 14, 2012
KU5039 *****
KU5039 DESIGNATION - 15E 14N
KU5039 PID - KU5039
KU5039 STATE/COUNTY- NY/NASSAU
KU5039 USGS QUAD - HUNTINGTON (1979)
KU5039
KU5039 *CURRENT SURVEY CONTROL
KU5039
-----
KU5039* NAD 83(2007)- 40 45 13.49016(N) 073 29 29.50713(W) ADJUSTED
KU5039* NAVD 88 - 37.4 (meters) 123. (feet) VERTCON
KU5039
-----
KU5039 EPOCH DATE - 2002.00
KU5039 X - 1,374,891.931 (meters) COMP
KU5039 Y - -4,639,038.874 (meters) COMP
KU5039 Z - 4,141,749.994 (meters) COMP
KU5039 LAPLACE CORR- 4.02 (seconds) DEFLEC09
KU5039 ELLIP HEIGHT- 6.331 (meters) (02/10/07) ADJUSTED
KU5039 GEOID HEIGHT- -31.11 (meters) GEOID09
KU5039
KU5039 ----- Accuracy Estimates (at 95% Confidence Level in cm) -----
KU5039 Type PID Designation North East Ellip
KU5039 -----
KU5039 NETWORK KU5039 15E 14N 1.29 1.12 2.78
KU5039 -----
KU5039
KU5039.The horizontal coordinates were established by GPS observations
KU5039.and adjusted by the National Geodetic Survey in February 2007.
KU5039
KU5039.The datum tag of NAD 83(2007) is equivalent to NAD 83(NSRS2007).
KU5039.See National Readjustment for more information.
KU5039
KU5039.The horizontal coordinates are valid at the epoch date displayed above
KU5039.which is a decimal equivalence of Year/Month/Day.
KU5039
KU5039.The NAVD 88 height was computed by applying the VERTCON shift value to
KU5039.the NGVD 29 height (displayed under SUPERSEDED SURVEY CONTROL.)
KU5039
KU5039.The X, Y, and Z were computed from the position and the ellipsoidal ht.
KU5039
KU5039.The Laplace correction was computed from DEFLEC09 derived deflections.
KU5039
KU5039.The ellipsoidal height was determined by GPS observations
KU5039.and is referenced to NAD 83.
KU5039
KU5039.The geoid height was determined by GEOID09.
KU5039
KU5039;
KU5039;SPC NY L - North East Units Scale Factor Converg.
KU5039;SPC NY L - 65,317.552 342,938.662 MT 0.99999631 +0 19 57.3
KU5039;SPC NY L - 214,296.00 1,125,124.59 sFT 0.99999631 +0 19 57.3
KU5039;UTM 18 - 4,512,515.673 627,337.852 MT 0.99979958 +0 59 05.6

```

KU5039
 KU5039! - Elev Factor x Scale Factor = Combined Factor
 KU5039!SPC NY L - 0.99999901 x 0.99999631 = 0.99999532
 KU5039!UTM 18 - 0.99999901 x 0.99979958 = 0.99979859
 KU5039
 KU5039: Primary Azimuth Mark Grid Az
 KU5039:SPC NY L - 15E 14N AZ 093 49 50.7
 KU5039:UTM 18 - 15E 14N AZ 093 10 42.4
 KU5039
 KU5039|-----|
 KU5039| PID Reference Object Distance Geod. Az |
 KU5039| | | | dddmmss.s |
 KU5039| KU5058 15E 14N AZ APPROX. 0.6 KM 0940948.0 |
 KU5039|-----|
 KU5039
 KU5039 SUPERSEDED SURVEY CONTROL
 KU5039
 KU5039 ELLIP H (12/03/02) 6.339 (m) GP() 4 2
 KU5039 NAD 83(1996)- 40 45 13.48989(N) 073 29 29.50681(W) AD() 1
 KU5039 ELLIP H (01/11/99) 6.342 (m) GP() 4 1
 KU5039 NAD 83(1996)- 40 45 13.49288(N) 073 29 29.50569(W) AD() 1
 KU5039 NAD 83(1992)- 40 45 13.49274(N) 073 29 29.50540(W) AD() 1
 KU5039 NAD 83(1986)- 40 45 13.49343(N) 073 29 29.50648(W) AD() 1
 KU5039 NGVD 29 (03/24/92) 37.8 (m) 124. (f) GPS OBS
 KU5039
 KU5039.Superseded values are not recommended for survey control.
 KU5039.NGS no longer adjusts projects to the NAD 27 or NGVD 29 datums.
 KU5039.See file dsdata.txt to determine how the superseded data were derived.
 KU5039
 KU5039_U.S. NATIONAL GRID SPATIAL ADDRESS: 18TXL2733712515(NAD 83)
 KU5039
 KU5039_MARKER: DO = NOT SPECIFIED OR SEE DESCRIPTION
 KU5039_SETTING: 59 = STAINLESS STEEL ROD IN SLEEVE (10 FT.+))
 KU5039_SP_SET: STAINLESS STEEL ROD IN SLEEVE)
 KU5039_STAMPING: 15E14N)
 KU5039_MARK LOGO: NYDPW)
 KU5039_PROJECTION: RECESSED 8 CENTIMETERS)
 KU5039_MAGNETIC: N = NO MAGNETIC MATERIAL)
 KU5039_STABILITY: A = MOST RELIABLE AND EXPECTED TO HOLD)
 KU5039+STABILITY: POSITION/ELEVATION WELL)
 KU5039_SATELLITE: THE SITE LOCATION WAS REPORTED AS SUITABLE FOR)
 KU5039+SATELLITE: SATELLITE OBSERVATIONS - 1990)
 KU5039_ROD/PIPE-DEPTH: 20.6 meters)
 KU5039_SLEEVE-DEPTH : 1.52 meters)
 KU5039
 KU5039 HISTORY - Date Condition Report By
 KU5039 HISTORY - 1990 MONUMENTED SBAS
 KU5039
 KU5039 STATION DESCRIPTION
 KU5039
 KU5039'DESCRIBED BY SIDNEY B BOWNE AND SON 1990
 KU5039'THE POINT IS LOCATED IN BETHPAGE, TOWN OF OYSTER BAY, 21 FEET (6.4 M)
 KU5039'SOUTH OF THE CENTERLINE OF SYCAMORE AVENUE AND 40 FEET (12.2 M) EAST
 KU5039'OF THE CENTERLINE OF NORTH 11TH STREET, IN THE CONCRETE SIDEWALK.
 KU5039'THE LOCATION TIES ARE 42.5 FEET (13.0 M) FROM THE CENTER OF THE
 KU5039'HYDRANT, 48.6 FEET (14.8 M) FROM THE CENTER OF THE SEWER MANHOLE AND
 KU5039'33.8 FEET (10.3 M) FROM THE NORTH WEST CORNER OF HOUSE NUMBER 207.

*** retrieval complete.
 Elapsed Time = 00:00:03

Appendix C

Chain of Custody Forms and Analytical Results



PROJECT NO: 11360230	FACILITY: NORTH GRUMMAN BATTAL	PROJECT MANAGER Robert Sol	PHONE NUMBER 757-466-4904	LABORATORY NAME AND CONTACT: TRE-MATRIX - WALT ROUNDEBUSH
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER Jim Ferguson	PHONE NUMBER 413-496-9283	ADDRESS 5360 CORPORATE BULWARK COURT
		CARRIER/WAYBILL NUMBER FED Ex AB # 8735 60121350	CITY, STATE Grand Rapids, MI 49512	

DATE YEAR	TIME	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)				TEST GROUP	COMMENTS		
								PRESERVATIVE USED	TYPE OF ANALYSIS						
STANDARD TAT <input type="checkbox"/>		RUSH TAT <input type="checkbox"/>		24 hr. <input type="checkbox"/>		48 hr. <input type="checkbox"/>		72 hr. <input type="checkbox"/>		7 day <input type="checkbox"/>		14 day <input type="checkbox"/>			
		19-1 717 White CART 3 E-1110398													
10/19	11:00	BPSI-SW3001	SW 3001	—	—	SW	6	7	3	2	1	1	—	01	* NEW CITRONE 24 HR HOLD TIME
10/19	11:30	BPSI-SW3002	SW 3002	—	—	SW	6	7	3	2	1	1	—	01	* NEW CITRONE 24 HR HOLD TIME
10/19	14:00	BPSI-TT-MW309-1520	MW 309	15'	20'	SO	6	1	—	—	—	—	1	02	
10/19	13:45	BPSI-TT-MW309-2025	MW 309	20'	25'	SO	6	1	—	—	—	—	1	02	
10/19	14:15	BPSI-TT-MW309-1615	MW 309	10'	15'	SO	6	1	—	—	—	—	1	02	
10/19	13:15	BPSI-TT-MW309-0005	MW 309	00'	05'	SO	6	1	—	—	—	—	1	02	
10/19	13:30	BPSI-TT-MW309-0510	MW 309	05'	10'	SO	6	1	—	—	—	—	1	02	
10/19	0800	BPSI-TT-TB1#19	—					2	2					03	Added per TETRA NUS (Circled) 10/19/11

1. RELINQUISHED BY	DATE 10/11/2011	TIME 16:00	1. RECEIVED BY TETRA NUS # 8735 60121350	DATE 10/19/2011	TIME 16:00
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE 10/20/11	TIME 0705

: 00018



E-1201112

TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER **No 1106**

PAGE **1** OF **1**

PROJECT NO: 112G02230	FACILITY: SITE1 PCB	PROJECT MANAGER ROB SOK	PHONE NUMBER 757 618 2104	LABORATORY NAME AND CONTACT: TRIMATRIX/WALT R.
SAMPLERS (SIGNATURE) <i>Sj Conti</i>		FIELD OPERATIONS LEADER S CONTI	PHONE NUMBER 412 551 2629	ADDRESS 5560 CORPORATE EXEC COURT
CARRIER/WAYBILL NUMBER FED EX # 8735 5966 0542			CITY, STATE GRAND RAPIDS, MI. 49512	

STANDARD TAT <input checked="" type="checkbox"/>	CONTAINER TYPE PLASTIC (P) or GLASS (G)
RUSH TAT <input type="checkbox"/>	PRESERVATIVE USED
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day	

DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS										TEST GROUP	COMMENTS
									VOCs (40ml)	PCBS (11 Amber)	TAL METALS TOT Cr, Fe	HEX Cr.	TAL METALS TOT Cr, Fe (DISS)	TOT Cr, Fe	TEST GROUP	COMMENTS				
1/10	1200	BPSI-TB-01102012	TB	-	-	QC	G	2	2							04				
1/10	1500	BPSI-TT-MW309S-01102012		-	-	GW	G	7	3	2	1	1				05				
1/10	1500	BPSI-TT-MW309S-01102012-F		-	-	GW	G	1					1			06				

1. RELINQUISHED BY <i>Sj Conti</i>	DATE 1/10/12	TIME 1800	1. RECEIVED BY FED EX	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY <i>[Signature]</i>	DATE 1/11/12	TIME 0945

COMMENTS *** CALL ROB SOK FOR TAT / ANALYZE HEX Cr. ASAP.**

: 00031

01
02
03



E-1201126
TETRA TECH NUS, INC.

CHAIN OF CUSTODY

Cut 2 678 Blue
NUMBER N^o 1107 | PAGE 1 OF 1

49-2

PROJECT NO: 112G02230		FACILITY: SITE 1 PCB		PROJECT MANAGER ROB SOK		PHONE NUMBER 757 618 2104		LABORATORY NAME AND CONTACT: TRIMATRIX / WALT R								
SAMPLERS (SIGNATURE) <i>Sj Conti</i>				FIELD OPERATIONS LEADER S CONTI		PHONE NUMBER 412 551 2629		ADDRESS 5560 CORP EXC COURT								
				CARRIER/WAYBILL NUMBER FED EX # 8735 5966 0531				CITY, STATE GRAND RAPIDS, MI 49512								
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED										
DATE YEAR	TIME	SAMPLE ID	LOG NUMBER	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS				COMMENTS			
1/11	0800	BPSI-TB-01112012	TB	-	-	QC	G	2	2					04	TRIP BLANK	
1/11	1000	BPSI-TT-MW309I-01112012		-	-	GW	G	7	3	2	1	1			05	MW309I
1/11	1410	BPSI-TT-MW309D-01112012		-	-	GW	G	7	3	2	1	1			05	MW309D
1/11	1410	BPSI-TT-MW309D-01112012	F	-	-	GW	G	1					1		06	MW309D (F)
1. RELINQUISHED BY <i>Sj Conti</i>				DATE	TIME	1. RECEIVED BY FED EX				DATE	TIME					
2. RELINQUISHED BY				DATE	TIME	2. RECEIVED BY				DATE	TIME					
3. RELINQUISHED BY				DATE	TIME	3. RECEIVED BY <i>[Signature]</i>				DATE	TIME					
COMMENTS CALL ROB SOK w/ ANY QUESTIONS!																

: 00036

01
02
03
04



PROJECT NO: 112602230		FACILITY: NWIRP Bethpage		PROJECT MANAGER Rob Sok		PHONE NUMBER 757-466-4904		LABORATORY NAME AND CONTACT: TriMatrix Walt Roulebusch																											
SAMPLERS (SIGNATURE) <i>Jacob Birkett</i> <i>WTR</i>				FIELD OPERATIONS LEADER Vince Shickora		PHONE NUMBER 610-909-1893		ADDRESS 5560 Corporate Exchange Court																											
				CARRIER/WAYBILL NUMBER FedEx 8729-3229-8874		CITY, STATE Grand Rapids MI 49512																													
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		<table border="1"> <tr> <td colspan="2">TYPE OF ANALYSIS</td> <td colspan="2">HCl</td> <td colspan="2">G</td> <td colspan="2">G</td> <td colspan="2">P</td> <td colspan="2">P</td> </tr> <tr> <td>VOCS</td> <td>PCBs</td> <td>Metals (Fe+Cr)</td> <td>Hexavalent Cr.</td> <td colspan="2">TEST GROUP</td> <td colspan="6"></td> </tr> </table>				TYPE OF ANALYSIS		HCl		G		G		P		P		VOCS	PCBs	Metals (Fe+Cr)	Hexavalent Cr.	TEST GROUP							
TYPE OF ANALYSIS		HCl		G		G						P		P																					
VOCS	PCBs	Metals (Fe+Cr)	Hexavalent Cr.	TEST GROUP																															
DATE YEAR 2012	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS					COMMENTS																						
1	1-16 0935	BPSI-TB01-01162012	-	-	-	QC	-	2	2				04	Lab prepared																					
2	1-16 1230	BPSI-TT-MW308D-01162012	-	-	-	GW	G	6	3	2	1		07																						
3	1-16 1440	BPSI-TT-MW308I-01162012	-	-	-	GW	G	6	3	2	1		07																						
4	1-16 1605	BPSI-TT-MW308S-01162012	-	-	-	GW	G	16	7	6	3		08	Run MSMSD																					
5	1-17 0950	BPSI-TT-MW301D-01172012	-	-	-	GW	G	6	3	2	1		07																						
6	1-17 1050	BPSI-TT-MW305S-01172012	-	-	-	GW	G	6	3	2	1		07																						
7	1-17 1140	BPSI-TT-MW301S-01172012	-	-	-	GW	G	6	3	2	1		07																						
8	1-17 1158	BPSI-TT-MW305I-01172012	-	-	-	GW	G	6	3	2	1		07																						
9	1-17 1305	BPSI-TT-MW301I-01172012	-	-	-	GW	G	7	3	2	1	1	05																						
10	1-17 1446	BPSI-TT-MW305D-01172012	-	-	-	GW	G	7	3	2	1	1	05																						
11	1-17 1515	BPSI-FW-MW02-01172012	-	-	-	GW	G	6	3	2	1		07																						
12	1-17 1200	BPSI-Dup 01-01172012	-	-	-	GW	G	6	3	2	1		09																						
1. RELINQUISHED BY <i>Jacob Birkett</i> <i>Jacob Birkett</i>				DATE 1-17-12		TIME 1720		1. RECEIVED BY				DATE		TIME																					
2. RELINQUISHED BY				DATE		TIME		2. RECEIVED BY				DATE		TIME																					
3. RELINQUISHED BY				DATE		TIME		3. RECEIVED BY <i>Wm Cole</i>				DATE 1/18/12		TIME 0845																					
COMMENTS																																			

: 00041



PROJECT NO: 112602230	FACILITY: NWIRP Bethpage	PROJECT MANAGER Rob Sok	PHONE NUMBER 757-466-4904	LABORATORY NAME AND CONTACT: Trimatrix Walt Roubush
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER Vince Shuckora	PHONE NUMBER 610-909-1893	ADDRESS 5560 Corporate Exchange Court SE
CARRIER/WAYBILL NUMBER FedEx 8729 3229 8680			CITY, STATE Grand Rapids, MI 49512	

STANDARD TAT
RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS												COMMENTS			
									CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		VOCs	PCBs	Total Metals (Fe+Cr)	Dissolved Metals (Fe+Cr)	Hexavalent Cr.	HCl	G	HNO ₃		HNO ₃	TEST GROUP	
1-18	0800	BPSI-TB02-01182012	-	-	-	QC	-	2	2															Lab prepared
2-18	0810	BPSI-FB01-01182012	-	-	-	QC	-	8	3	2	1	1	1											Field Blank
3-18	0820	BPSI-RB01-01182012	-	-	-	QC	-	8	3	2	1	1	1											Rinsate Blank over Groundfoc
4-18	1042	BPSI-TT-MW307D-01182012	-	-	-	GW	G	6	3	2	1													
5-18	1045	BPSI-TT-MW304S-01182012	-	-	-	GW	G	6	3	2	1													
6-18	1225	BPSI-TT-MW304I1-01182012	-	-	-	GW	G	7	3	2	1													
7-18	1232	BPSI-TT-MW307I-01182012	-	-	-	GW	G	7	3	2	1													
8-18	1400	BPSI-TT-MW304I2-01182012	-	-	-	GW	G	7	3	2	1													
9-18	1450	BPSI-TT-MW307S-01182012	-	-	-	GW	G	6	3	2	1													
10-18	1600	BPSI-TT-Dup02-01182012	-	-	-	GW	G	7	3	2	1													Duplicate

1. RELINQUISHED BY 	DATE 1-18-2012	TIME 1700	1. RECEIVED BY 	DATE 1-19-12	TIME 0845
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

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TETRA TECH NUS, INC.

Cart 4 33 Rack #377G E-1201254

CHAIN OF CUSTODY

NUMBER

No 1134

PAGE 1 OF 1

13.5

PROJECT NO: 112G02230	FACILITY: NWIRP Bethpage	PROJECT MANAGER Rob Sok	PHONE NUMBER 757-466-4904	LABORATORY NAME AND CONTACT: Tri Matrix Whit Roubush
SAMPLERS (SIGNATURE) 		FIELD OPERATIONS LEADER Vince Shickora	PHONE NUMBER 610-909-1893	ADDRESS 5560 Corporate Exchange Court SE
CARRIER/WAYBILL NUMBER FedEx 8729 3229 8679			CITY, STATE Grand Rapids, MI 49512	

STANDARD TAT RUSH TAT
 24 hr. 48 hr. 72 hr. 7 day 14 day

DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD (GRAB (G) COMP (C))	No. OF CONTAINERS	TYPE OF ANALYSIS										COMMENTS								
									VOC	PCB	Total Metals (Fe+Cu)	Total Metals (Fe+Cu)	Total Metals (Fe+Cr+Cu+Ni)	Hexavalent Chromium	TEST GROUP	CONTAINER TYPE PLASTIC (P) or GLASS (G)				PRESERVATIVE USED							
1-19	0745	BPSI-TB03-01192012	-	-	-	QC	-	2																	04	Lab Prepared	
1-19	0917	BPSI-HN-MW29I-01192012	-	-	-	GW	G	6	3	2																01	
1-19	0930	BPSI-FW-MW01-01192012	-	-	-	GW	G	6	3	2	1															07	
1-19	1110	BPSI-FW-MW03-01192012	-	-	-	GW	G	6	3	2	1															07	
1-19	1117	BPSI-TT-MW304D-01192012	-	-	-	GW	G	6	3	2	1															07	
1-19	1307	BPSI-TT-MW303I2-01192012	-	-	-	GW	G	7	3	2	1															05	
1-19	1415	BPSI-TT-MW303I1-01192012	-	-	-	GW	G	7	3	2	1	1														13	
1-19	1452	BPSI-TT-MW303D-01192012	-	-	-	GW	G	6	3	2	1															07	
1-19	1630	BPSI-Dup03-01192012	-	-	-	GW	G	6	3	2	1															09	Duplicate

1. RELINQUISHED BY 	DATE 1-19-12	TIME 1645	1. RECEIVED BY 	DATE	TIME
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY 	DATE 1-20-12	TIME 0845

COMMENTS

00022



E-1201287
TETRA TECH NUS, INC.

CHAIN OF CUSTODY



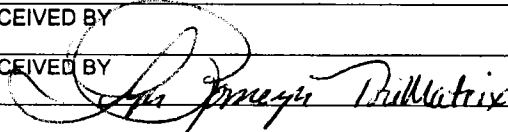
NUMBER

No 1132

PAGE 1 OF 1

Rack # 160 Blue Cart 2

15-7
TM 1395

PROJECT NO: 112602230		FACILITY: NWIRP Bethpage		PROJECT MANAGER Rob Sak		PHONE NUMBER 757-814-466-4904		LABORATORY NAME AND CONTACT: Tri-Matrix Walt Roubush									
SAMPLERS (SIGNATURE) 				FIELD OPERATIONS LEADER Vince Shickora		PHONE NUMBER 610-909-1893		ADDRESS 5560 Corporate Exchange Court SE									
				CARRIER/WAYBILL NUMBER FedEx 8729-3229-8830		CITY, STATE Grand Rapids, MI 49512											
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day				CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS VOCs HCl G PCBs - G Total Metals (Fe+Cu) HNO ₃ P Total Metals (Fe, Cu, Ni) HNO ₃ P TEST GROUP									
DATE YEAR 2012				TOP DEPTH (FT)		BOTTOM DEPTH (FT)						MATRIX (GW, SO, SW, SD, QC, ETC.)		COLLECTION METHOD		No. OF CONTAINERS		COMMENTS
TIME		SAMPLE ID		LOCATION ID		TOP DEPTH (FT)		BOTTOM DEPTH (FT)		MATRIX (GW, SO, SW, SD, QC, ETC.)		COLLECTION METHOD		No. OF CONTAINERS		COMMENTS	
1-20 0730		BPSI-TB04-01202012		-		-		-		QC		-		2		Lab prepared	
1-20 0920		BPSI-TT-MW302S-01202012		-		-		-		GW		G		6		3 2 1 07	
1-20 1000		BPSI-TT-MW302D-01202012		-		-		-		GW		G		6		3 2 1 01	
1-20 1045		BPSI-TT-MW302I1-01202012		-		-		-		GW		G		6		3 2 1 07	
1-20 1115		BPSI-TT-MW302I2-01202012		-		-		-		GW		G		6		3 2 1 07	
1. RELINQUISHED BY 				DATE 1-20-12		TIME 1400		1. RECEIVED BY				DATE		TIME			
2. RELINQUISHED BY				DATE		TIME		2. RECEIVED BY				DATE		TIME			
3. RELINQUISHED BY				DATE		TIME		3. RECEIVED BY 				DATE 1/21/12		TIME 0845			
COMMENTS																	

00028



E-1201310
TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER

Rack # 12, ~~977~~ Cart 9
white
2674

PAGE 1 OF 1

19-3

PROJECT NO: 112G02230		FACILITY: NWIRP Bethpage		PROJECT MANAGER Rob Sok		PHONE NUMBER 757-466-4904		LABORATORY NAME AND CONTACT: TriMatrix Walt Roudelbush							
SAMPLERS (SIGNATURE) 				FIELD OPERATIONS LEADER Vince Shickora		PHONE NUMBER 616-909-1893		ADDRESS 5560 Corporate Exchange Court SE							
				CARRIER/WAYBILL NUMBER FedEx 8749-3229-8841				CITY, STATE Grand Rapids, MI 49512							
STANDARD TAT <input checked="" type="checkbox"/> RUSH TAT <input type="checkbox"/> <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day								CONTAINER TYPE PLASTIC (P) or GLASS (G)							
								PRESERVATIVE USED							
								TYPE OF ANALYSIS							
								VOCS							
								PCBs							
								Total Metals (Fe, Cr)							
								Hexavalent Chromium							
								TOC							
								TEST GROUP							
										COMMENTS					
DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAP (G) COMP (C)	No. OF CONTAINERS							
01	1-23 0730	BPSI-TB05-01232012	-	-	-	QC	-	2	2					04	Lab prepared
02	1-23 1035	BPSI-TT-MW306D-01232012	-	-	-	GW	G	9	3	2	1		3	14	
03	1-23 1049	BPSI-TT-MW303S-01232012	-	-	-	GW	G	6	3	2	1			07	
04	1-23 1210	BPSI-TT-MW306I-01232012	-	-	-	GW	G	18	7	6	1	1	3	15	Run MSMSD on everything except TOC
05	1-23 1230	BPSI-TT-MW301D-01232012	-	-	-	GW	G	1				1		16	
06	1-23 1330	BPSI-RB02-01232012	-	-	-	QC	-	7	3	2	1	1		17	Rinse Blank
07	1-23 1350	BPSI-TT-MW306S-01232012	-	-	-	GW	G	10	3	2	1	1	3	19	
08	1-23 1430	BPSI-FB02-01232012	-	-	-	QC	-	7	3	2	1	1		18	Source Blank
09	1-23 1600	BPSI-Dup04-01232012	-	-	-	GW	G	6	3	2	1			09	
1. RELINQUISHED BY 				DATE 1-23-12		TIME		1. RECEIVED BY 				DATE		TIME	
2. RELINQUISHED BY				DATE		TIME		2. RECEIVED BY				DATE		TIME	
3. RELINQUISHED BY				DATE		TIME		3. RECEIVED BY 				DATE 1/24/12		TIME 0845	
COMMENTS															

00004

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4/02R

FORM NO. TINUS-001

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03

File ID: 1201254-03.D

Sampled: 01/19/12 09:30

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 15:09

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	3.1	0.19	0.50	1.0	
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	70	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	J
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03

File ID: 1201254-03.D

Sampled: 01/19/12 09:30

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 15:09

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	230	0.16	0.50	1.0	E
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	8.3	0.14	0.50	1.0	
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	21	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.2	0.22	0.50	1.0	
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.3	103	85 - 115	
1,2-Dichloroethane-d4	40.0	39.7	99	70 - 120	
Toluene-d8	40.0	40.0	100	85 - 120	
4-Bromofluorobenzene	40.0	37.7	94	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	524227	5.13	88	5.13	
Chlorobenzene-d5	490570	8.08	89	8.08	
1,4-Dichlorobenzene-d4	259473	10.38	81	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03RE1

File ID: 1201254-03D.D

Sampled: 01/19/12 09:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 16:36

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	2	2.0	1.3	2.0	20	U
71-43-2	Benzene	2	1.0	0.23	1.0	2.0	U
74-97-5	Bromochloromethane	2	1.0	0.31	1.0	2.0	U
75-27-4	Bromodichloromethane	2	1.0	0.27	1.0	2.0	U
75-25-2	Bromoform	2	0.50	0.20	0.50	2.0	U
74-83-9	Bromomethane	2	1.0	0.56	1.0	2.0	U
75-15-0	Carbon Disulfide	2	1.0	0.37	1.0	10	U
56-23-5	Carbon Tetrachloride	2	1.0	0.29	1.0	2.0	U
108-90-7	Chlorobenzene	2	1.0	0.26	1.0	2.0	U
75-00-3	Chloroethane	2	1.0	0.30	1.0	2.0	U
67-66-3	Chloroform	2	1.0	0.32	1.0	2.0	U
74-87-3	Chloromethane	2	1.0	0.36	1.0	2.0	U
110-82-7	Cyclohexane	2	1.0	0.58	1.0	10	U
96-12-8	1,2-Dibromo-3-chloropropane	2	1.0	0.50	1.0	4.0	U
124-48-1	Dibromochloromethane	2	0.50	0.19	0.50	2.0	U
106-93-4	1,2-Dibromoethane	2	0.50	0.21	0.50	2.0	U
95-50-1	1,2-Dichlorobenzene	2	1.0	0.31	1.0	2.0	U
541-73-1	1,3-Dichlorobenzene	2	0.50	0.21	0.50	2.0	U
106-46-7	1,4-Dichlorobenzene	2	1.0	0.31	1.0	2.0	U
75-71-8	Dichlorodifluoromethane	2	1.0	0.50	1.0	2.0	U
75-34-3	1,1-Dichloroethane	2	3.0	0.39	1.0	2.0	
107-06-2	1,2-Dichloroethane	2	1.0	0.24	1.0	2.0	U
75-35-4	1,1-Dichloroethene	2	1.0	0.35	1.0	2.0	U
156-59-2	cis-1,2-Dichloroethene	2	64	0.34	1.0	2.0	
156-60-5	trans-1,2-Dichloroethene	2	1.0	0.23	1.0	2.0	U
78-87-5	1,2-Dichloropropane	2	1.0	0.29	1.0	2.0	U
10061-01-5	cis-1,3-Dichloropropene	2	0.20	0.10	0.20	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2	0.50	0.22	0.50	2.0	U
123-91-1	1,4-Dioxane	2	50	20	50	100	U
100-41-4	Ethylbenzene	2	0.50	0.21	0.50	2.0	U
591-78-6	2-Hexanone	2	1.0	0.48	1.0	10	U
98-82-8	Isopropylbenzene	2	1.0	0.34	1.0	2.0	U
79-20-9	Methyl Acetate	2	1.0	0.55	1.0	10	U
1634-04-4	Methyl tert-Butyl Ether	2	1.0	0.26	1.0	2.0	U
108-87-2	Methylcyclohexane	2	1.0	0.47	1.0	10	U
75-09-2	Methylene Chloride	2	1.0	0.69	1.0	2.0	U
78-93-3	2-Butanone (MEK)	2	1.0	0.56	1.0	10	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03RE1

File ID: 1201254-03D.D

Sampled: 01/19/12 09:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 16:36

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	2	1.0	0.47	1.0	10	U
100-42-5	Styrene	2	0.20	0.11	0.20	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2	1.0	0.24	1.0	2.0	U
127-18-4	Tetrachloroethene	2	200	0.33	1.0	2.0	
108-88-3	Toluene	2	0.20	0.11	0.20	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2	1.0	0.28	1.0	4.0	U
120-82-1	1,2,4-Trichlorobenzene	2	1.0	0.29	1.0	4.0	U
71-55-6	1,1,1-Trichloroethane	2	7.8	0.29	1.0	2.0	
79-00-5	1,1,2-Trichloroethane	2	1.0	0.30	1.0	2.0	U
79-01-6	Trichloroethene	2	20	0.37	1.0	2.0	
75-69-4	Trichlorofluoromethane	2	1.0	0.36	1.0	2.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	1.0	0.45	1.0	2.0	J
75-01-4	Vinyl Chloride	2	1.0	0.48	1.0	2.0	U
179601-23-1	Xylene, Meta + Para	2	1.0	0.57	1.0	4.0	U
95-47-6	Xylene, Ortho	2	0.50	0.21	0.50	2.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.3	101	70 - 120	
Toluene-d8	40.0	41.0	102	85 - 120	
4-Bromofluorobenzene	40.0	38.6	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	493663	5.13	93	5.13	
Chlorobenzene-d5	472107	8.08	93	8.08	
1,4-Dichlorobenzene-d4	254308	10.38	86	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-03

File ID: A87_039-0

Sampled: 01/19/12 09:30

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 00:55

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.196	97	40 - 135	
Tetrachloro-m-xylene	0.202	0.169	84	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-03RE1

File ID: A87 372-0

Sampled: 01/19/12 09:30

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 02:18

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.46	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.192	95	40 - 135	
Tetrachloro-m-xylene	0.202	0.153	76	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03

Sampled: 01/19/12 09:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	860	ug/L	8.1	10	20		01/30/12 14:25

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FW-MW01-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-03

Sampled: 01/19/12 09:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	4.4	ug/L	0.20	0.50	1.0		01/31/12 16:08

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-11

File ID: 1201218-11.D

Sampled: 01/17/12 15:15

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 13:46

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.35	0.13	0.50	1.0	J
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-11

File ID: 1201218-11.D

Sampled: 01/17/12 15:15

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 13:46

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	21	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.39	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	2.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.36	0.22	0.50	1.0	J
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.0	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	530321	5.13	89	5.13	
Chlorobenzene-d5	499909	8.08	90	8.08	
1,4-Dichlorobenzene-d4	268517	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-11

File ID: A87 022-0

Sampled: 01/17/12 15:15

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 18:02

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.184	91	40 - 135	
Tetrachloro-m-xylene	0.202	0.161	80	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-11RE1

File ID: A87 179-0

Sampled: 01/17/12 15:15

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 17:30

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01038

Calibration: 2B01011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.30	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.188	93	40 - 135	
Tetrachloro-m-xylene	0.202	0.167	83	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-11

Sampled: 01/17/12 15:15

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	8.5	ug/L	0.20	0.50	1.0		01/31/12 15:36

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FW-MW02-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-11

Sampled: 01/17/12 15:15

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	330	ug/L	8.1	10	20		01/30/12 12:46

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-04

File ID: 1201254-04.D

Sampled: 01/19/12 11:10

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 15:37

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.49	0.17	0.50	1.0	J
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-04

File ID: 1201254-04.D

Sampled: 01/19/12 11:10

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 15:37

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	68	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.25	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	3.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.7	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.4	101	70 - 120	
Toluene-d8	40.0	40.6	102	85 - 120	
4-Bromofluorobenzene	40.0	37.7	94	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	525475	5.13	88	5.13	
Chlorobenzene-d5	499629	8.08	90	8.08	
1,4-Dichlorobenzene-d4	262518	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-04

File ID: A87 040-0

Sampled: 01/19/12 11:10

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 01:19

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.152	75	40 - 135	
Tetrachloro-m-xylene	0.202	0.131	65	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-04RE1

File ID: A87 374-0

Sampled: 01/19/12 11:10

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 03:07

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.9	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.189	94	40 - 135	
Tetrachloro-m-xylene	0.202	0.152	75	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-04

Sampled: 01/19/12 11:10

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	110	ug/L	8.1	10	20		01/30/12 14:29

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FW-MW03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-04

Sampled: 01/19/12 11:10

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	4.6	ug/L	0.20	0.50	1.0		01/31/12 16:10

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-HN-MW291-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-02

File ID: 1201254-02.D

Sampled: 01/19/12 09:17

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 14:42

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-HN-MW291-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-02

File ID: 1201254-02.D

Sampled: 01/19/12 09:17

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 14:42

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.49	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.6	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.5	101	70 - 120	
Toluene-d8	40.0	41.0	102	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	511183	5.13	86	5.13	
Chlorobenzene-d5	481292	8.08	87	8.08	
1,4-Dichlorobenzene-d4	257465	10.38	80	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-HN-MW29I-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-02

File ID: A87 038-0

Sampled: 01/19/12 09:17

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 00:31

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.191	94	40 - 135	
Tetrachloro-m-xylene	0.202	0.131	65	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-HN-MW29I-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-02RE1

File ID: A87 371-0

Sampled: 01/19/12 09:17

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 01:54

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.63	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.185	91	40 - 135	
Tetrachloro-m-xylene	0.202	0.126	62	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-HN-MW29I-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-02

Sampled: 01/19/12 09:17

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-70-2	Calcium, Total	1	24000	ug/L	230	500	500		01/30/12 14:21
7439-89-6	Iron, Total	1	83	ug/L	8.1	10	20		01/30/12 14:21
7440-23-5	Sodium, Total	1	7800	ug/L	130	500	500		01/30/12 14:21

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-HN-MW29I-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-02

Sampled: 01/19/12 09:17

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	5.5	ug/L	0.20	0.50	1.0		01/31/12 16:07

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup03-01192012

BPS1-HN-MW29T

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-09

File ID: 1201254-09.D

Sampled: 01/19/12 16:30

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup03-01192012

BPS1-HN-MW29T

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-09

File ID: 1201254-09.D

Sampled: 01/19/12 16:30

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.46	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.2	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.1	100	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	527482	5.13	88	5.13	
Chlorobenzene-d5	495899	8.08	90	8.08	
1,4-Dichlorobenzene-d4	264783	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-Dup03-01192012

BPS1-HN-MW221

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-09

File ID: A87 045-0

Sampled: 01/19/12 16:30

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 03:20

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.196	97	40 - 135	
Tetrachloro-m-xylene	0.202	0.178	88	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-Dup03-01192012

BPS1-HN-Mw29Z

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-09RE1

File ID: A87 385-0

Sampled: 01/19/12 16:30

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 07:34

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.66	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.195	96	40 - 135	
Tetrachloro-m-xylene	0.202	0.176	87	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-Dup03-01192012

BPS1-HN-MW29E

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-09

Sampled: 01/19/12 16:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	93	ug/L	8.1	10	20		01/30/12 14:58

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPSI-Dup03-01192012

BPSI-HN-MW29I

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-09

Sampled: 01/19/12 16:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	5.2	ug/L	0.20	0.50	1.0		01/31/12 16:15

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-07

File ID: 1201218-07.D

Sampled: 01/17/12 11:40

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 13:46

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-07

File ID: 1201218-07.D

Sampled: 01/17/12 11:40

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 13:46

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.3	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	41.3	103	85 - 120	
4-Bromofluorobenzene	40.0	38.9	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	561816	5.13	93	5.13	
Chlorobenzene-d5	537929	8.08	94	8.08	
1,4-Dichlorobenzene-d4	296519	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-07

File ID: A87 016-0

Sampled: 01/17/12 11:40

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 15:37

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.182	89	40 - 135	
Tetrachloro-m-xylene	0.204	0.174	86	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-07RE1

File ID: A87_172-0

Sampled: 01/17/12 11:40

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 14:40

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2B02020

Calibration: 2B02004

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	10	10	0.54	0.80	2.0	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-07

Sampled: 01/17/12 11:40

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	56	ug/L	8.1	10	20		01/30/12 12:30

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW301S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-07

Sampled: 01/17/12 11:40

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.5	ug/L	0.20	0.50	1.0		01/31/12 15:29

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3011-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-09

File ID: 1201218-09.D

Sampled: 01/17/12 13:05

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 13:19

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-09

File ID: 1201218-09.D

Sampled: 01/17/12 13:05

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 13:19

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.7	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	40.4	101	85 - 120	
4-Bromofluorobenzene	40.0	38.5	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	516158	5.13	86	5.13	
Chlorobenzene-d5	479498	8.08	87	8.08	
1,4-Dichlorobenzene-d4	259720	10.38	81	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-09

File ID: A87 018-0

Sampled: 01/17/12 13:05

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 16:25

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.185	92	40 - 135	
Tetrachloro-m-xylene	0.202	0.153	76	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-09RE1

File ID: A87 175-0

Sampled: 01/17/12 13:05

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 15:53

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.79	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.190	94	40 - 135	
Tetrachloro-m-xylene	0.202	0.159	79	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-09

Sampled: 01/17/12 13:05

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	17	ug/L	8.1	10	20	J	01/30/12 12:38

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-09

Sampled: 01/17/12 13:05

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	7.0	ug/L	0.20	0.50	1.0		01/31/12 15:34

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW301I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-09

Sampled: 01/17/12 13:05

Prepared: 01/18/12 10:14

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201614

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	5.3	ug/L	0.3	1.0	1.0		01/18/12 10:40

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-05

File ID: 1201218-05.D

Sampled: 01/17/12 09:50

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 12:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.22	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-05

File ID: 1201218-05.D

Sampled: 01/17/12 09:50

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 12:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.26	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.14	0.057	0.10	1.0	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.53	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	2.6	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.9	102	85 - 115	
1,2-Dichloroethane-d4	40.0	39.5	99	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	39.1	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	567161	5.13	94	5.13	
Chlorobenzene-d5	534103	8.08	93	8.08	
1,4-Dichlorobenzene-d4	295193	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-05

File ID: A87 014-0

Sampled: 01/17/12 09:50

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 14:48

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.177	87	40 - 135	
Tetrachloro-m-xylene	0.204	0.154	75	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-05RE1

File ID: A87 170-0

Sampled: 01/17/12 09:50

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 13:52

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.75	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.190	93	40 - 135	
Tetrachloro-m-xylene	0.204	0.167	82	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-05

Sampled: 01/17/12 09:50

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	14	ug/L	8.1	10	20	J	01/30/12 12:21

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW301D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-05

Sampled: 01/17/12 09:50

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	92	ug/L	0.20	0.50	1.0		01/31/12 15:27

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW301D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-05

Sampled: 01/23/12 12:30

Prepared: 01/24/12 10:38

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201753

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	5	86.0	ug/L	1.5	5.0	5.0		01/24/12 11:25

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-02

File ID: 1201287-02.D

Sampled: 01/20/12 09:20

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 12:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-02

File ID: 1201287-02.D

Sampled: 01/20/12 09:20

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 12:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.5	104	85 - 115	
1,2-Dichloroethane-d4	40.0	39.4	99	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	38.6	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	514821	5.13	97	5.13	
Chlorobenzene-d5	484007	8.08	95	8.08	
1,4-Dichlorobenzene-d4	261639	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-02

File ID: A87 082-0

Sampled: 01/20/12 09:20

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 21:18

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 960 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.208	100	40 - 135	
Tetrachloro-m-xylene	0.208	0.176	85	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-02RE1

File ID: A87 281-0

Sampled: 01/20/12 09:20

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 02:03

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 960 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.43	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.193	93	40 - 135	
Tetrachloro-m-xylene	0.208	0.167	80	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-02

Sampled: 01/20/12 09:20

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	22	ug/L	8.1	10	20		01/30/12 15:02

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW302S-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-02

Sampled: 01/20/12 09:20

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.63	ug/L	0.20	0.50	1.0	J	01/31/12 16:21

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW302I1-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-04

File ID: 1201287-04.D

Sampled: 01/20/12 10:45

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 13:22

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.45	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30211-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-04

File ID: 1201287-04.D

Sampled: 01/20/12 10:45

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 13:22

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.29	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.35	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.0	100	70 - 120	
Toluene-d8	40.0	41.1	103	85 - 120	
4-Bromofluorobenzene	40.0	38.9	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	492765	5.13	93	5.13	
Chlorobenzene-d5	466376	8.08	92	8.08	
1,4-Dichlorobenzene-d4	251538	10.38	85	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30211-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-04

File ID: A87_084-0

Sampled: 01/20/12 10:45

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 22:07

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.209	102	40 - 135	
Tetrachloro-m-xylene	0.204	0.156	77	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30211-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-04RE1

File ID: A87 283-0

Sampled: 01/20/12 10:45

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 02:51

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	1.2	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.191	93	40 - 135	
Tetrachloro-m-xylene	0.204	0.150	73	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW302I1-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-04

Sampled: 01/20/12 10:45

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	34	ug/L	8.1	10	20		01/30/12 15:10

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW302I1-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-04

Sampled: 01/20/12 10:45

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	1.4	ug/L	0.20	0.50	1.0		01/31/12 16:23

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30212-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-05

File ID: 1201287-05.D

Sampled: 01/20/12 11:15

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 13:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30212-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-05

File ID: 1201287-05.D

Sampled: 01/20/12 11:15

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 13:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.8	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.9	105	85 - 115	
1,2-Dichloroethane-d4	40.0	39.8	99	70 - 120	
Toluene-d8	40.0	40.9	102	85 - 120	
4-Bromofluorobenzene	40.0	38.1	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	496718	5.13	94	5.13	
Chlorobenzene-d5	470247	8.08	93	8.08	
1,4-Dichlorobenzene-d4	255582	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30212-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-05

File ID: A87_085-0

Sampled: 01/20/12 11:15

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 22:31

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.208	103	40 - 135	
Tetrachloro-m-xylene	0.202	0.163	81	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30212-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-05RE1

File ID: A87 285-0

Sampled: 01/20/12 11:15

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 03:40

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.9	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.200	99	40 - 135	
Tetrachloro-m-xylene	0.202	0.154	76	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW302I2-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-05

Sampled: 01/20/12 11:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	59	ug/L	8.1	10	20		01/30/12 15:14

INORGANIC ANALYSIS DATA SHEET

USEPA-6020A

BPS1-TT-MW30212-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-05

Sampled: 01/20/12 11:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	5.1	ug/L	0.20	0.50	1.0		01/31/12 16:24

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-03

File ID: 1201287-03.D

Sampled: 01/20/12 10:00

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 12:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.62	0.17	0.50	1.0	J
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-03

File ID: 1201287-03.D

Sampled: 01/20/12 10:00

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 12:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.33	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.23	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	3.9	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.2	103	85 - 115	
1,2-Dichloroethane-d4	40.0	39.0	97	70 - 120	
Toluene-d8	40.0	40.5	101	85 - 120	
4-Bromofluorobenzene	40.0	38.5	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	504030	5.13	95	5.13	
Chlorobenzene-d5	470972	8.08	93	8.08	
1,4-Dichlorobenzene-d4	253629	10.38	86	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-03

File ID: A87_083-0

Sampled: 01/20/12 10:00

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 21:42

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 960 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.211	101	40 - 135	
Tetrachloro-m-xylene	0.208	0.163	78	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201287-03RE1

File ID: A87_282-0

Sampled: 01/20/12 10:00

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 02:27

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 960 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.85	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.192	92	40 - 135	
Tetrachloro-m-xylene	0.208	0.153	73	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-03

Sampled: 01/20/12 10:00

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-70-2	Calcium, Total	1	8000	ug/L	230	500	500		01/30/12 15:06
7439-89-6	Iron, Total	1	75	ug/L	8.1	10	20		01/30/12 15:06
7440-23-5	Sodium, Total	1	24000	ug/L	130	500	500		01/30/12 15:06

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW302D-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201287-03

Sampled: 01/20/12 10:00

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.3	ug/L	0.20	0.50	1.0		01/31/12 16:22

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-03

File ID: 1201310-03.D

Sampled: 01/23/12 10:49

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 14:45

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-03

File ID: 1201310-03.D

Sampled: 01/23/12 10:49

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 14:45

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.9	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	2.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.6	104	85 - 115	
1,2-Dichloroethane-d4	40.0	39.6	99	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	38.5	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	507152	5.13	96	5.13	
Chlorobenzene-d5	475239	8.08	94	8.08	
1,4-Dichlorobenzene-d4	257292	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-03

File ID: A87 087-0

Sampled: 01/23/12 10:49

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 23:19

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.208	103	40 - 135	
Tetrachloro-m-xylene	0.202	0.152	75	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-03RE1

File ID: A87 289-0

Sampled: 01/23/12 10:49

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 05:17

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B07033

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.21	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.189	94	40 - 135	
Tetrachloro-m-xylene	0.202	0.143	71	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-03

Sampled: 01/23/12 10:49

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	66	ug/L	8.1	10	20		01/30/12 15:30

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW303S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-03

Sampled: 01/23/12 10:49

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.7	ug/L	0.20	0.50	1.0		01/31/12 16:26

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup04-01232012

BPS1-TT-MW3035

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-09

File ID: 1201310-09.D

Sampled: 01/23/12 16:00

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 16:08

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup04-01232012

BPS1-T7-MW303 S1

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-09

File ID: 1201310-09.D

Sampled: 01/23/12 16:00

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 16:08

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.8	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	2.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.6	104	85 - 115	
1,2-Dichloroethane-d4	40.0	39.9	100	70 - 120	
Toluene-d8	40.0	40.9	102	85 - 120	
4-Bromofluorobenzene	40.0	37.9	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	484017	5.13	91	5.13	
Chlorobenzene-d5	461266	8.08	91	8.08	
1,4-Dichlorobenzene-d4	247962	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-Dup04-01232012

BPS1-77-MW303,5

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-09

File ID: A87 094-0

Sampled: 01/23/12 16:00

Prepared: 01/25/12 08:27

Analyzed: 01/27/12 02:09

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.209	103	40 - 135	
Tetrachloro-m-xylene	0.202	0.171	85	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-Dup04-01232012

BPS1-TT-MW303S

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-09RE1

File ID: A87 294-0

Sampled: 01/23/12 16:00

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 07:18

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B07033

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.20	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.193	96	40 - 135	
Tetrachloro-m-xylene	0.202	0.164	81	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-Dup04-01232012

BPS1-TT-MW3035

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-09

Sampled: 01/23/12 16:00

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	210	ug/L	8.1	10	20		01/30/12 16:07

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-Dup04-01232012

BPS1-TT-MW3035

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-09

Sampled: 01/23/12 16:00

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	4.2	ug/L	0.20	0.50	1.0		01/31/12 16:42

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30311-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

File ID: 1201254-07.D

Sampled: 01/19/12 14:15

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:00

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	1.6	0.19	0.50	1.0	
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	1.6	0.17	0.50	1.0	
156-59-2	cis-1,2-Dichloroethene	1	2.0	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30311-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

File ID: 1201254-07.D

Sampled: 01/19/12 14:15

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:00

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	83	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	18	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.0	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	514906	5.13	86	5.13	
Chlorobenzene-d5	488654	8.08	88	8.08	
1,4-Dichlorobenzene-d4	259158	10.38	81	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30311-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-07

File ID: A87 043-0

Sampled: 01/19/12 14:15

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 02:32

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 970 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.195	94	40 - 135	
Tetrachloro-m-xylene	0.206	0.173	84	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW30311-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-07RE1

File ID: AFEB010-0

Sampled: 01/19/12 14:15

Prepared: 01/23/12 11:22

Analyzed: 02/09/12 14:22

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09057

Calibration: 2B09015

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	3	3.9	0.19	0.24	0.60	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.225	109	40 - 135	
Tetrachloro-m-xylene	0.206	0.192	93	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW303I1-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

Sampled: 01/19/12 14:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	6000	ug/L	8.1	10	20		01/30/12 14:49

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW303I1-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

Sampled: 01/19/12 14:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201623

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Dissolved	1	70	ug/L	8.1	10	20		01/30/12 16:31

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW303I1-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

Sampled: 01/19/12 14:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	5.8	ug/L	0.20	0.50	1.0		01/31/12 16:13

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW30311-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-07

Sampled: 01/19/12 14:15

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201624

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Dissolved	1	0.23	ug/L	0.20	0.50	1.0	J	01/31/12 15:08

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-06

File ID: 1201254-06.D

Sampled: 01/19/12 13:07

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 16:32

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-06

File ID: 1201254-06.D

Sampled: 01/19/12 13:07

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 16:32

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.94	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.6	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.4	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.4	101	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	38.1	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	510032	5.13	86	5.13	
Chlorobenzene-d5	480629	8.08	87	8.08	
1,4-Dichlorobenzene-d4	259640	10.38	81	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-06

File ID: A87 042-0

Sampled: 01/19/12 13:07

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 02:08

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.215	104	40 - 135	
Tetrachloro-m-xylene	0.206	0.180	87	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-06RE1

File ID: A87 378-0

Sampled: 01/19/12 13:07

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 04:44

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 970 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	2.4	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.214	104	40 - 135	
Tetrachloro-m-xylene	0.206	0.179	87	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-06

Sampled: 01/19/12 13:07

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	69	ug/L	8.1	10	20		01/30/12 14:45

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-06

Sampled: 01/19/12 13:07

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.4	ug/L	0.20	0.50	1.0		01/31/12 16:12

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW303I2-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-06

Sampled: 01/19/12 13:07

Prepared: 01/20/12 10:46

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201627

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/20/12 11:15

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-08

File ID: 1201254-08.D

Sampled: 01/19/12 14:52

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:28

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-08

File ID: 1201254-08.D

Sampled: 01/19/12 14:52

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 17:28

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.51	0.18	0.50	1.0	J
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.9	105	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	530402	5.13	89	5.13	
Chlorobenzene-d5	497230	8.08	90	8.08	
1,4-Dichlorobenzene-d4	266672	10.38	83	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-08

File ID: A87_044-0

Sampled: 01/19/12 14:52

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 02:56

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 940 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.085	0.057	0.085	0.21	U
11104-28-2	PCB-1221	1	0.085	0.048	0.085	0.21	U
11141-16-5	PCB-1232	1	0.085	0.044	0.085	0.21	U
12672-29-6	PCB-1248	1	0.085	0.058	0.085	0.21	U
11097-69-1	PCB-1254	1	0.085	0.057	0.085	0.21	U
11096-82-5	PCB-1260	1	0.085	0.031	0.085	0.21	U
37324-23-5	PCB-1262	1	0.085	0.085	0.085	0.21	U
11100-14-4	PCB-1268	1	0.085	0.042	0.085	0.21	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.213	0.210	99	40 - 135	
Tetrachloro-m-xylene	0.213	0.181	85	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-08RE1

File ID: A87 384-0

Sampled: 01/19/12 14:52

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 07:10

Solids:

Preparation: 3510C Liquid-Liquid Ext

Initial/Final: 940 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09045

Calibration: 2B09015

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	2	1.6	0.13	0.17	0.43	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.213	0.213	100	40 - 135	
Tetrachloro-m-xylene	0.213	0.186	88	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-08

Sampled: 01/19/12 14:52

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	520	ug/L	8.1	10	20		01/30/12 14:54

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW303D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-08

Sampled: 01/19/12 14:52

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	5.3	ug/L	0.20	0.50	1.0		01/31/12 16:14

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW304S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-05

File ID: 1201244-05.D

Sampled: 01/18/12 10:45

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 12:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW304S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-05

File ID: 1201244-05.D

Sampled: 01/18/12 10:45

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 12:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.2	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.3	101	70 - 120	
Toluene-d8	40.0	41.0	102	85 - 120	
4-Bromofluorobenzene	40.0	38.9	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	530181	5.13	89	5.13	
Chlorobenzene-d5	493846	8.08	89	8.08	
1,4-Dichlorobenzene-d4	269552	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW304S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-05

File ID: A87 027-0

Sampled: 01/18/12 10:45

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 20:04

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.205	99	40 - 135	
Tetrachloro-m-xylene	0.206	0.167	81	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW304S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-05

Sampled: 01/18/12 10:45

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	58	ug/L	8.1	10	20		01/30/12 13:14

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW304S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-05

Sampled: 01/18/12 10:45

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	1.4	ug/L	0.20	0.50	1.0		01/31/12 15:42

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW304I1-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-06

File ID: 1201244-06.D

Sampled: 01/18/12 12:25

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 16:59

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	1.6	0.19	0.50	1.0	
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	6.0	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW30411-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-06

File ID: 1201244-06.D

Sampled: 01/18/12 12:25

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 16:59

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	25	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	1.7	0.14	0.50	1.0	
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	4.1	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.0	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.1	100	70 - 120	
Toluene-d8	40.0	41.1	103	85 - 120	
4-Bromofluorobenzene	40.0	38.7	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	550781	5.13	91	5.13	
Chlorobenzene-d5	528117	8.08	92	8.08	
1,4-Dichlorobenzene-d4	290850	10.38	86	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-FT-MW30411-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-06

File ID: A87 028-0

Sampled: 01/18/12 12:25

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 20:28

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.194	95	40 - 135	
Tetrachloro-m-xylene	0.204	0.161	79	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW304I1-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-06RE1

File ID: A87 277-0

Sampled: 01/18/12 12:25

Prepared: 01/23/12 11:04

Analyzed: 02/03/12 00:26

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.97	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.190	93	40 - 135	
Tetrachloro-m-xylene	0.204	0.161	79	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW304I1-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-06

Sampled: 01/18/12 12:25

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	400	ug/L	8.1	10	20		01/30/12 13:18

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW304I1-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-06

Sampled: 01/18/12 12:25

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	38	ug/L	0.20	0.50	1.0		01/31/12 15:43

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW304I1-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-06

Sampled: 01/18/12 12:25

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201625

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	2	35.5	ug/L	0.6	2.0	2.0		01/19/12 11:23

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TTMW-304I2-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-08

File ID: 1201244-08.D

Sampled: 01/18/12 14:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 17:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	2.7	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TTMW-30412-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-08

File ID: 1201244-08.D

Sampled: 01/18/12 14:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 17:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	5.5	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.26	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.7	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.4	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.7	102	70 - 120	
Toluene-d8	40.0	41.2	103	85 - 120	
4-Bromofluorobenzene	40.0	39.0	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	532905	5.13	88	5.13	
Chlorobenzene-d5	512136	8.08	89	8.08	
1,4-Dichlorobenzene-d4	285184	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TTMW-304I2-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-08

File ID: A87 032-0

Sampled: 01/18/12 14:00

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 22:05

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.178	88	40 - 135	
Tetrachloro-m-xylene	0.202	0.152	75	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TTMW-30412-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-08RE1

File ID: A87 239-0

Sampled: 01/18/12 14:00

Prepared: 01/23/12 11:04

Analyzed: 02/01/12 17:28

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2B02024

Calibration: 2B01011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.5	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.160	79	40 - 135	
Tetrachloro-m-xylene	0.202	0.137	68	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

MMC
3/15/12

TT- MW304I2-
 BPS1-~~TTMW-304I2~~-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-08

Sampled: 01/18/12 14:00

Prepared: 01/31/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201437

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	16	ug/L	8.1	10	20	J	02/01/12 10:34

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

MMC
3/15/12

BPS1-TT-MW304I2-
BPS1-TTMW-304I2-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-08

Sampled: 01/18/12 14:00

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201436

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	5	200	ug/L	0.98	2.5	5.0		01/31/12 16:43

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

*MMC
3/5/12*

-TT-MW304I2-
BPS1-~~FTMW~~-304I2-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-08

Sampled: 01/18/12 14:00

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201626

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	181	ug/L	0.3	1.0	1.0		01/19/12 11:43

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-Dup02-01182012

BPS1-TT-MW304I2

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-10

File ID: 1201244-10.D

Sampled: 01/18/12 16:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 18:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	2.8	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-Dup02-01182012

BPS1-TT-MW304I2

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-10

File ID: 1201244-10.D

Sampled: 01/18/12 16:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 18:50

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	5.5	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.23	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.8	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.6	102	85 - 115	
1,2-Dichloroethane-d4	40.0	39.9	100	70 - 120	
Toluene-d8	40.0	41.1	103	85 - 120	
4-Bromofluorobenzene	40.0	38.8	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	540587	5.13	90	5.13	
Chlorobenzene-d5	516262	8.08	90	8.08	
1,4-Dichlorobenzene-d4	282850	10.38	83	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-Dup02-01182012

BPS1-TT-MW304T2

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-10

File ID: A87 034-0

Sampled: 01/18/12 16:00

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 22:53

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.182	90	40 - 135	
Tetrachloro-m-xylene	0.202	0.144	71	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-Dup02-01182012

BPS1-TT-MW30412

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-10RE1

File ID: A87 240-0

Sampled: 01/18/12 16:00

Prepared: 01/23/12 11:04

Analyzed: 02/01/12 17:52

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2B02024

Calibration: 2B01011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.6	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.160	79	40 - 135	
Tetrachloro-m-xylene	0.202	0.123	61	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET

USEPA-6010C

BPS1-TT-Dup02-01182012

BPS1-TT-MW30412

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-10

Sampled: 01/18/12 16:00

Prepared: 01/31/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201437

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	10	ug/L	8.1	10	20	J	02/01/12 10:48

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-Dup02-01182012

BPS1-TT-MW304E2

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-10

Sampled: 01/18/12 16:00

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201436

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	5	170	ug/L	0.98	2.5	5.0		01/31/12 16:44

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-Dup02-01182012

BPS1-TT-MW304I2

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-10

Sampled: 01/18/12 16:00

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201626

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	182	ug/L	0.3	1.0	1.0		01/19/12 11:46

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-05

File ID: 1201254-05.D

Sampled: 01/19/12 11:17

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 16:05

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-05

File ID: 1201254-05.D

Sampled: 01/19/12 11:17

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 16:05

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.6	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.7	102	70 - 120	
Toluene-d8	40.0	40.7	102	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	495461	5.13	83	5.13	
Chlorobenzene-d5	466712	8.08	84	8.08	
1,4-Dichlorobenzene-d4	249857	10.38	78	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-05

File ID: A87 041-0

Sampled: 01/19/12 11:17

Prepared: 01/23/12 11:22

Analyzed: 01/26/12 01:43

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 1000 mL / 2 mL

QC Batch: 1201518

Sequence: 2B06048

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.200	0.198	99	40 - 135	
Tetrachloro-m-xylene	0.200	0.163	82	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201254-05RE1

File ID: A87 376-0

Sampled: 01/19/12 11:17

Prepared: 01/23/12 11:22

Analyzed: 02/07/12 03:56

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 1000 mL / 2 mL

QC Batch: 1201518

Sequence: 2B09039

Calibration: 2B09014

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	4	4.2	0.22	0.32	0.80	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.200	0.194	97	40 - 135	
Tetrachloro-m-xylene	0.200	0.156	78	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-05

Sampled: 01/19/12 11:17

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	160	ug/L	8.1	10	20		01/30/12 14:41

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW304D-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201254-05

Sampled: 01/19/12 11:17

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	4.5	ug/L	0.20	0.50	1.0		01/31/12 16:11

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-06

File ID: 1201218-06.D

Sampled: 01/17/12 10:50

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 13:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-06

File ID: 1201218-06.D

Sampled: 01/17/12 10:50

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 13:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.8	102	85 - 115	
1,2-Dichloroethane-d4	40.0	40.3	101	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.8	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	569876	5.13	95	5.13	
Chlorobenzene-d5	542177	8.08	94	8.08	
1,4-Dichlorobenzene-d4	296764	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW305S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-06

File ID: A87 015-0

Sampled: 01/17/12 10:50

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 15:13

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.181	90	40 - 135	
Tetrachloro-m-xylene	0.202	0.162	80	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW305S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-06

Sampled: 01/17/12 10:50

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	560	ug/L	8.1	10	20		01/30/12 12:26

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW305S-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-06

Sampled: 01/17/12 10:50

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.4	ug/L	0.20	0.50	1.0		01/31/12 15:28

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup01-01172012

BPS1-TT-MW3055

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-12

File ID: 1201218-12.D

Sampled: 01/17/12 12:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 19:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-Dup01-01172012

BPS1-TT-MW3058

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-12

File ID: 1201218-12.D

Sampled: 01/17/12 12:00

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 19:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.2	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	41.0	102	85 - 120	
4-Bromofluorobenzene	40.0	39.2	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	541628	5.13	90	5.13	
Chlorobenzene-d5	515065	8.08	90	8.08	
1,4-Dichlorobenzene-d4	285259	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-Dup01-01172012

BPS1-TT-MW3055

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-12

File ID: A87 023-0

Sampled: 01/17/12 12:00

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 18:27

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.184	90	40 - 135	
Tetrachloro-m-xylene	0.204	0.162	79	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-Dup01-01172012

BPS1-TT-MW305S

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-12

Sampled: 01/17/12 12:00

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	650	ug/L	8.1	10	20		01/30/12 12:50

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-Dup01-01172012

BPS1- TT-MW305 S

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-12

Sampled: 01/17/12 12:00

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.6	ug/L	0.20	0.50	1.0		01/31/12 15:38

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08

File ID: 1201218-08.D

Sampled: 01/17/12 11:58

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 14:13

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.49	0.14	0.50	1.0	J
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.27	0.16	0.50	1.0	J
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	2.7	0.19	0.50	1.0	
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	1.3	0.17	0.50	1.0	
156-59-2	cis-1,2-Dichloroethene	1	4.7	0.17	0.50	1.0	
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08

File ID: 1201218-08.D

Sampled: 01/17/12 11:58

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 14:13

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	3.3	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.28	0.14	0.50	1.0	J
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	3100	0.18	0.50	1.0	E
75-69-4	Trichlorofluoromethane	1	0.91	0.18	0.50	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.1	0.22	0.50	1.0	
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.9	102	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	41.1	103	85 - 120	
4-Bromofluorobenzene	40.0	39.1	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	573063	5.13	95	5.13	
Chlorobenzene-d5	539488	8.08	94	8.08	
1,4-Dichlorobenzene-d4	298649	10.38	88	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08RE1

File ID: 1201218-08D.D

Sampled: 01/17/12 11:58

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 18:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	50	50	33	50	500	U
71-43-2	Benzene	50	25	5.8	25	50	U
74-97-5	Bromochloromethane	50	25	7.8	25	50	U
75-27-4	Bromodichloromethane	50	25	6.7	25	50	U
75-25-2	Bromoform	50	12	5.1	12	50	U
74-83-9	Bromomethane	50	25	14	25	50	U
75-15-0	Carbon Disulfide	50	25	9.4	25	250	U
56-23-5	Carbon Tetrachloride	50	25	7.2	25	50	U
108-90-7	Chlorobenzene	50	25	6.4	25	50	U
75-00-3	Chloroethane	50	25	7.5	25	50	U
67-66-3	Chloroform	50	25	8.0	25	50	U
74-87-3	Chloromethane	50	25	9.0	25	50	U
110-82-7	Cyclohexane	50	25	14	25	250	U
96-12-8	1,2-Dibromo-3-chloropropane	50	25	13	25	100	U
124-48-1	Dibromochloromethane	50	12	4.7	12	50	U
106-93-4	1,2-Dibromoethane	50	12	5.4	12	50	U
95-50-1	1,2-Dichlorobenzene	50	25	7.7	25	50	U
541-73-1	1,3-Dichlorobenzene	50	12	5.3	12	50	U
106-46-7	1,4-Dichlorobenzene	50	25	7.8	25	50	U
75-71-8	Dichlorodifluoromethane	50	25	12	25	50	U
75-34-3	1,1-Dichloroethane	50	25	9.7	25	50	U
107-06-2	1,2-Dichloroethane	50	25	6.1	25	50	U
75-35-4	1,1-Dichloroethene	50	25	8.6	25	50	U
156-59-2	cis-1,2-Dichloroethene	50	25	8.6	25	50	U
156-60-5	trans-1,2-Dichloroethene	50	25	5.7	25	50	U
78-87-5	1,2-Dichloropropane	50	25	7.3	25	50	U
10061-01-5	cis-1,3-Dichloropropene	50	5.0	2.5	5.0	50	U
10061-02-6	trans-1,3-Dichloropropene	50	12	5.4	12	50	U
123-91-1	1,4-Dioxane	50	1200	500	1200	2500	U
100-41-4	Ethylbenzene	50	12	5.4	12	50	U
591-78-6	2-Hexanone	50	25	12	25	250	U
98-82-8	Isopropylbenzene	50	25	8.4	25	50	U
79-20-9	Methyl Acetate	50	25	14	25	250	U
1634-04-4	Methyl tert-Butyl Ether	50	25	6.4	25	50	U
108-87-2	Methylcyclohexane	50	25	12	25	250	U
75-09-2	Methylene Chloride	50	25	17	25	50	U
78-93-3	2-Butanone (MEK)	50	25	14	25	250	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08RE1

File ID: 1201218-08D.D

Sampled: 01/17/12 11:58

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 18:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	50	25	12	25	250	U
100-42-5	Styrene	50	5.0	2.8	5.0	50	U
79-34-5	1,1,2-Tetrachloroethane	50	25	6.0	25	50	U
127-18-4	Tetrachloroethene	50	25	8.2	25	50	U
108-88-3	Toluene	50	5.0	2.8	5.0	50	U
87-61-6	1,2,3-Trichlorobenzene	50	25	6.9	25	100	U
120-82-1	1,2,4-Trichlorobenzene	50	25	7.4	25	100	U
71-55-6	1,1,1-Trichloroethane	50	25	7.2	25	50	U
79-00-5	1,1,2-Trichloroethane	50	25	7.6	25	50	U
79-01-6	Trichloroethene	50	3900	9.2	25	50	
75-69-4	Trichlorofluoromethane	50	25	9.0	25	50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	25	11	25	50	U
75-01-4	Vinyl Chloride	50	25	12	25	50	U
179601-23-1	Xylene, Meta + Para	50	25	14	25	100	U
95-47-6	Xylene, Ortho	50	12	5.2	12	50	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.7	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.5	101	70 - 120	
Toluene-d8	40.0	41.2	103	85 - 120	
4-Bromofluorobenzene	40.0	37.6	94	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	523098	5.13	88	5.13	
Chlorobenzene-d5	496296	8.08	90	8.08	
1,4-Dichlorobenzene-d4	264842	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-08

File ID: A87 017-0

Sampled: 01/17/12 11:58

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 16:01

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.192	94	40 - 135	
Tetrachloro-m-xylene	0.204	0.169	83	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW3051-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-08RE1

File ID: A87_174-0

Sampled: 01/17/12 11:58

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 15:29

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01038

Calibration: 2B01011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.3	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.193	95	40 - 135	
Tetrachloro-m-xylene	0.204	0.165	81	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08

Sampled: 01/17/12 11:58

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	1100	ug/L	8.1	10	20		01/30/12 12:34

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW305I-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-08

Sampled: 01/17/12 11:58

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	3.5	ug/L	0.20	0.50	1.0		01/31/12 15:33

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-10

File ID: 1201218-10.D

Sampled: 01/17/12 14:46

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 15:09

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.19	0.16	0.50	1.0	J
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.57	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.73	0.17	0.50	1.0	J
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-10

File ID: 1201218-10.D

Sampled: 01/17/12 14:46

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 15:09

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.9	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	140	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.94	0.18	0.50	1.0	J
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.33	0.22	0.50	1.0	J
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.1	103	85 - 115	
1,2-Dichloroethane-d4	40.0	40.8	102	70 - 120	
Toluene-d8	40.0	41.3	103	85 - 120	
4-Bromofluorobenzene	40.0	39.4	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	555682	5.13	92	5.13	
Chlorobenzene-d5	527690	8.08	92	8.08	
1,4-Dichlorobenzene-d4	295729	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

USEPA-8082

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-10

File ID: A87 021-0

Sampled: 01/17/12 14:46

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 17:38

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 960 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.193	93	40 - 135	
Tetrachloro-m-xylene	0.208	0.166	80	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-10RE1

File ID: A87 178-0

Sampled: 01/17/12 14:46

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 17:06

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 960 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.16	0.062	0.080	0.20	J

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.208	0.207	99	40 - 135	
Tetrachloro-m-xylene	0.208	0.173	83	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-10

Sampled: 01/17/12 14:46

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	1100	ug/L	8.1	10	20		01/30/12 12:42

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-10

Sampled: 01/17/12 14:46

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	22	ug/L	0.20	0.50	1.0		01/31/12 15:35

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW305D-01172012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-10

Sampled: 01/17/12 14:46

Prepared: 01/18/12 10:14

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201614

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/18/12 10:41

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-07

File ID: 1201310-07.D

Sampled: 01/23/12 13:50

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 15:41

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-07

File ID: 1201310-07.D

Sampled: 01/23/12 13:50

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 15:41

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.40	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.9	105	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	41.1	103	85 - 120	
4-Bromofluorobenzene	40.0	38.0	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	491916	5.12	93	5.13	
Chlorobenzene-d5	470240	8.08	93	8.08	
1,4-Dichlorobenzene-d4	252002	10.38	85	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-07

File ID: A87 092-0

Sampled: 01/23/12 13:50

Prepared: 01/25/12 08:27

Analyzed: 01/27/12 01:21

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B06054

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.202	100	40 - 135	
Tetrachloro-m-xylene	0.202	0.154	76	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-07RE1

File ID: A87_292-0

Sampled: 01/23/12 13:50

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 06:30

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B07033

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.54	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.189	94	40 - 135	
Tetrachloro-m-xylene	0.202	0.153	76	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-07

Sampled: 01/23/12 13:50

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	310	ug/L	8.1	10	20		01/30/12 15:59

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-07

Sampled: 01/23/12 13:50

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	1.3	ug/L	0.20	0.50	1.0		01/31/12 16:40

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.
 Client: TETRA TECHNUS - Pittsburgh
 Matrix: Ground Water
 Sampled: 01/23/12 13:50
 Solids: 0.00
 QC Batch: 1201753

SDG: 50063-13
 Project: NWIRP Bethpage, NY 01-CTO WE44(04)
 Laboratory ID: 1201310-07
 Prepared: 01/24/12 10:38
 Preparation: Method-Specific Preparation
 Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/24/12 11:30

INORGANIC ANALYSIS DATA SHEET
SM 5310 C 20th

BPS1-TT-MW306S-01232012

Laboratory: TriMatrix Laboratories, Inc.
 Client: TETRA TECH NUS - Pittsburgh
 Matrix: Ground Water
 Sampled: 01/23/12 13:50
 Solids: 0.00
 QC Batch: 1201785

SDG: 50063-13
 Project: NWIRP Bethpage, NY 01-CTO WE44(04)
 Laboratory ID: 1201310-07
 Prepared: 01/25/12 10:42
 Preparation: General Inorganic Prep
 Initial/Final: 40 mL / 40 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-44-0	Carbon, Total Organic	1	710	ug/L	280	500	1000	J	01/26/12 03:03

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

File ID: 1201310-04.D

Sampled: 01/23/12 12:10

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 15:13

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3061-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

File ID: 1201310-04.D

Sampled: 01/23/12 12:10

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 15:13

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.54	0.18	0.50	1.0	J
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.1	100	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.4	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	492913	5.13	93	5.13	
Chlorobenzene-d5	466790	8.08	92	8.08	
1,4-Dichlorobenzene-d4	250499	10.38	85	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-04

File ID: A87 088-0

Sampled: 01/23/12 12:10

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 23:44

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.215	107	40 - 135	
Tetrachloro-m-xylene	0.202	0.203	100	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-04RE1

File ID: A87 291-0

Sampled: 01/23/12 12:10

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 06:05

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B07033

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	1.8	0.11	0.16	0.40	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.203	101	40 - 135	
Tetrachloro-m-xylene	0.202	0.177	88	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

Sampled: 01/23/12 12:10

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	93	ug/L	8.1	10	20		01/30/12 15:34

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

Sampled: 01/23/12 12:10

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.3	ug/L	0.20	0.50	1.0		01/31/12 16:27

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

Sampled: 01/23/12 12:10

Prepared: 01/24/12 10:38

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201753

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/24/12 11:17

INORGANIC ANALYSIS DATA SHEET

SM 5310 C 20th

BPS1-TT-MW306I-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-04

Sampled: 01/23/12 12:10

Prepared: 01/25/12 10:42

Solids: 0.00

Preparation: General Inorganic Prep

QC Batch: 1201785

Initial/Final: 40 mL / 40 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-44-0	Carbon, Total Organic	1	3300	ug/L	280	500	1000		01/26/12 02:56

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-02

File ID: 1201310-02.D

Sampled: 01/23/12 10:35

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 14:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-02

File ID: 1201310-02.D

Sampled: 01/23/12 10:35

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 14:18

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.44	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	2.4	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.9	105	85 - 115	
1,2-Dichloroethane-d4	40.0	39.8	99	70 - 120	
Toluene-d8	40.0	41.2	103	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	497242	5.13	94	5.13	
Chlorobenzene-d5	472128	8.08	93	8.08	
1,4-Dichlorobenzene-d4	254168	10.38	86	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-02

File ID: A87 086-0

Sampled: 01/23/12 10:35

Prepared: 01/25/12 08:27

Analyzed: 01/26/12 22:55

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.197	98	40 - 135	
Tetrachloro-m-xylene	0.202	0.158	78	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201310-02RE1

File ID: A87 286-0

Sampled: 01/23/12 10:35

Prepared: 01/25/12 08:27

Analyzed: 02/03/12 04:04

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201593

Sequence: 2B08001

Calibration: 2B08001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.61	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.193	96	40 - 135	
Tetrachloro-m-xylene	0.202	0.153	76	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-02

Sampled: 01/23/12 10:35

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	77	ug/L	8.1	10	20		01/30/12 15:18

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-02

Sampled: 01/23/12 10:35

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	1.2	ug/L	0.20	0.50	1.0		01/31/12 16:25

INORGANIC ANALYSIS DATA SHEET
SM 5310 C 20th

BPS1-TT-MW306D-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201310-02

Sampled: 01/23/12 10:35

Prepared: 01/25/12 10:42

Solids: 0.00

Preparation: General Inorganic Prep

QC Batch: 1201785

Initial/Final: 40 mL / 40 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-44-0	Carbon, Total Organic	1	1100	ug/L	280	500	1000		01/26/12 02:48

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW307S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-09

File ID: 1201244-09.D

Sampled: 01/18/12 14:50

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 12:51

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.24	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.30	0.27	0.50	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW307S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-09

File ID: 1201244-09.D

Sampled: 01/18/12 14:50

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 12:51

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.3	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.57	0.18	0.50	1.0	J
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.2	105	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	101	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	523242	5.13	88	5.13	
Chlorobenzene-d5	490935	8.08	89	8.08	
1,4-Dichlorobenzene-d4	265413	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW307S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-09

File ID: A87 033-0

Sampled: 01/18/12 14:50

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 22:29

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 1000 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

<i>PCB-1248</i>		<i>1</i>	<i>0.080</i>	<i>0.08</i>	<i>0.20</i>	<i>U</i>
System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q	
Decachlorobiphenyl	0.200	0.193	96	40 - 135		
Tetrachloro-m-xylene	0.200	0.176	88	36 - 114		

* Values outside of QC limits

3-29-12
JAS

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW307S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-09

Sampled: 01/18/12 14:50

Prepared: 01/31/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201437

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	530	ug/L	8.1	10	20		02/01/12 10:44

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW307S-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-09

Sampled: 01/18/12 14:50

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201436

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	4.0	ug/L	0.20	0.50	1.0		01/31/12 15:56

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3071-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-07

File ID: 1201244-07.D

Sampled: 01/18/12 12:32

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 17:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.20	0.19	0.50	5.0	J
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.23	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW307I-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-07

File ID: 1201244-07.D

Sampled: 01/18/12 12:32

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 17:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.1	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.8	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.9	102	85 - 115	
1,2-Dichloroethane-d4	40.0	40.5	101	70 - 120	
Toluene-d8	40.0	41.2	103	85 - 120	
4-Bromofluorobenzene	40.0	38.8	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	538692	5.13	89	5.13	
Chlorobenzene-d5	512513	8.08	89	8.08	
1,4-Dichlorobenzene-d4	281998	10.38	83	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW307I-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-07

File ID: A87 029-0

Sampled: 01/18/12 12:32

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 20:52

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.185	90	40 - 135	
Tetrachloro-m-xylene	0.206	0.151	73	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW307I-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-07RE1

File ID: A87 278-0

Sampled: 01/18/12 12:32

Prepared: 01/23/12 11:04

Analyzed: 02/03/12 00:50

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2B03005

Calibration: 2B03001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.84	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.181	88	40 - 135	
Tetrachloro-m-xylene	0.206	0.145	70	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW307I-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-07

Sampled: 01/18/12 12:32

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	460	ug/L	8.1	10	20		01/30/12 13:22

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW3071-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-07

Sampled: 01/18/12 12:32

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	12	ug/L	0.20	0.50	1.0		01/31/12 15:50

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW307I-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-07

Sampled: 01/18/12 12:32

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201625

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/19/12 11:21

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-04

File ID: 1201244-04.D

Sampled: 01/18/12 10:42

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:56

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-04

File ID: 1201244-04.D

Sampled: 01/18/12 10:42

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:56

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.0	105	85 - 115	
1,2-Dichloroethane-d4	40.0	41.0	102	70 - 120	
Toluene-d8	40.0	40.7	102	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	517989	5.13	87	5.13	
Chlorobenzene-d5	489258	8.08	88	8.08	
1,4-Dichlorobenzene-d4	264473	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET

USEPA-8082

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-04

File ID: A87_026-0

Sampled: 01/18/12 10:42

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 19:39

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.200	97	40 - 135	
Tetrachloro-m-xylene	0.206	0.162	78	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201244-04RE1

File ID: A87 181-0

Sampled: 01/18/12 10:42

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 18:19

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.56	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.210	102	40 - 135	
Tetrachloro-m-xylene	0.206	0.199	97	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-04

Sampled: 01/18/12 10:42

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	460	ug/L	8.1	10	20		01/30/12 13:10

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW307D-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201244-04

Sampled: 01/18/12 10:42

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	13	ug/L	0.20	0.50	1.0		01/31/12 15:41

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-04

File ID: 1201218-04.D

Sampled: 01/16/12 16:05

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 12:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-04

File ID: 1201218-04.D

Sampled: 01/16/12 16:05

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 12:23

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.71	0.18	0.50	1.0	J
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.5	101	85 - 115	
1,2-Dichloroethane-d4	40.0	39.9	100	70 - 120	
Toluene-d8	40.0	40.9	102	85 - 120	
4-Bromofluorobenzene	40.0	39.0	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	560980	5.13	93	5.13	
Chlorobenzene-d5	528535	8.08	92	8.08	
1,4-Dichlorobenzene-d4	290125	10.38	85	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-04

File ID: A87_013-0

Sampled: 01/16/12 16:05

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 14:24

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.190	93	40 - 135	
Tetrachloro-m-xylene	0.204	0.165	81	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-04RE1

File ID: A87 169-0

Sampled: 01/16/12 16:05

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 13:28

Solids:

Preparation: 3510C Liquid-Liquid Ex1

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01038

Calibration: 2B01011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.20	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.199	97	40 - 135	
Tetrachloro-m-xylene	0.204	0.177	87	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-04

Sampled: 01/16/12 16:05

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	150	ug/L	8.1	10	20		01/30/12 11:53

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW308S-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-04

Sampled: 01/16/12 16:05

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	10	ug/L	0.20	0.50	1.0		01/31/12 15:22

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW308I-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-03

File ID: 1201218-03.D

Sampled: 01/16/12 14:40

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3081-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-03

File ID: 1201218-03.D

Sampled: 01/16/12 14:40

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:55

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.2	101	85 - 115	
1,2-Dichloroethane-d4	40.0	39.3	98	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	39.4	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	580762	5.13	96	5.13	
Chlorobenzene-d5	546951	8.08	95	8.08	
1,4-Dichlorobenzene-d4	302793	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308I-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-03

File ID: A87 012-0

Sampled: 01/16/12 14:40

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 14:00

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.193	93	40 - 135	
Tetrachloro-m-xylene	0.206	0.171	83	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308I-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-03RE1

File ID: A87_168-0

Sampled: 01/16/12 14:40

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 13:03

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.52	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.209	101	40 - 135	
Tetrachloro-m-xylene	0.206	0.183	89	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW308I-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-03

Sampled: 01/16/12 14:40

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	240	ug/L	8.1	10	20		01/30/12 11:49

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW308I-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-03

Sampled: 01/16/12 14:40

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	10	ug/L	0.20	0.50	1.0		01/31/12 15:21

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-02

File ID: 1201218-02.D

Sampled: 01/16/12 12:30

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.19	0.16	0.50	1.0	J
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-02

File ID: 1201218-02.D

Sampled: 01/16/12 12:30

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:27

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.70	0.16	0.50	1.0	J
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.6	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.7	102	85 - 115	
1,2-Dichloroethane-d4	40.0	39.8	99	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	39.3	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	572613	5.13	95	5.13	
Chlorobenzene-d5	539709	8.08	94	8.08	
1,4-Dichlorobenzene-d4	298556	10.38	88	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201218-02

File ID: A87 011-0

Sampled: 01/16/12 12:30

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 13:36

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.183	89	40 - 135	
Tetrachloro-m-xylene	0.206	0.168	82	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO V

Matrix: Ground Water

Laboratory ID: 1201218-02RE1

File ID: A87 167-0

Sampled: 01/16/12 12:30

Prepared: 01/23/12 11:04

Analyzed: 01/28/12 12:39

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201461

Sequence: 2B01016

Calibration: 2B01003

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.073	0.062	0.080	0.20	J

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.207	100	40 - 135	
Tetrachloro-m-xylene	0.206	0.175	85	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET

USEPA-6010C

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-02

Sampled: 01/16/12 12:30

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	240	ug/L	8.1	10	20		01/30/12 11:45

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW308D-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201218-02

Sampled: 01/16/12 12:30

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	17	ug/L	0.20	0.50	1.0		01/31/12 15:19

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-02

File ID: 1201112-02.D

Sampled: 01/10/12 15:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 17:25

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-02

File ID: 1201112-02.D

Sampled: 01/10/12 15:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 17:25

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.61	0.18	0.50	1.0	J
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.6	99	85 - 115	
1,2-Dichloroethane-d4	40.0	39.9	100	70 - 120	
Toluene-d8	40.0	39.9	100	85 - 120	
4-Bromofluorobenzene	40.0	38.9	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	621343	5.13	93	5.13	
Chlorobenzene-d5	560678	8.08	93	8.08	
1,4-Dichlorobenzene-d4	302809	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201112-02

File ID: A86 336-0

Sampled: 01/10/12 15:00

Prepared: 01/12/12 08:43

Analyzed: 01/16/12 16:32

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 930 mL / 2 mL

QC Batch: 1201141

Sequence: 2A20016

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.086	0.058	0.086	0.22	U
11104-28-2	PCB-1221	1	0.086	0.049	0.086	0.22	U
11141-16-5	PCB-1232	1	0.086	0.044	0.086	0.22	U
53469-21-9	PCB-1242	1	0.086	0.067	0.086	0.22	U
11097-69-1	PCB-1254	1	0.086	0.057	0.086	0.22	U
11096-82-5	PCB-1260	1	0.086	0.031	0.086	0.22	U
37324-23-5	PCB-1262	1	0.086	0.086	0.086	0.22	U
11100-14-4	PCB-1268	1	0.086	0.043	0.086	0.22	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.215	0.197	91	40 - 135	
Tetrachloro-m-xylene	0.215	0.186	86	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201112-02RE1

File ID: A86 392-0

Sampled: 01/10/12 15:00

Prepared: 01/12/12 08:43

Analyzed: 01/17/12 15:19

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 930 mL / 2 mL

QC Batch: 1201141

Sequence: 2A20029

Calibration: 2A20009

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	1.0	0.058	0.086	0.22	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.215	0.204	95	40 - 135	
Tetrachloro-m-xylene	0.215	0.182	84	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-02

Sampled: 01/10/12 15:00

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	2100	ug/L	8.1	10	20		01/30/12 11:33

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW309S-01102012-F

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-03

Sampled: 01/10/12 15:00

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201439

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Dissolved	1	92	ug/L	8.1	10	20		01/26/12 14:17

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPSI-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-02

Sampled: 01/10/12 15:00

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	18	ug/L	0.20	0.50	1.0		01/31/12 15:14

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW309S-01102012-F

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-03

Sampled: 01/10/12 15:00

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201438

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Dissolved	1	13	ug/L	0.20	0.50	1.0		01/31/12 14:56

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3091-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTQ WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-02

File ID: 1201126-02.D

Sampled: 01/11/12 10:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 17:52

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW3091-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-02

File ID: 1201126-02.D

Sampled: 01/11/12 10:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 17:52

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.6	99	85 - 115	
1,2-Dichloroethane-d4	40.0	39.5	99	70 - 120	
Toluene-d8	40.0	39.6	99	85 - 120	
4-Bromofluorobenzene	40.0	39.1	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	628762	5.13	94	5.13	
Chlorobenzene-d5	563778	8.08	94	8.08	
1,4-Dichlorobenzene-d4	304000	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW309I-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201126-02

File ID: A86 341-0

Sampled: 01/11/12 10:00

Prepared: 01/13/12 08:41

Analyzed: 01/16/12 18:33

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201186

Sequence: 2A20016

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.187	92	40 - 135	
Tetrachloro-m-xylene	0.202	0.141	70	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW309I-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201126-02RE1

File ID: A86 386-0

Sampled: 01/11/12 10:00

Prepared: 01/13/12 08:41

Analyzed: 01/17/12 12:53

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1201186

Sequence: 2A20018

Calibration: 2A20002

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
53469-21-9	PCB-1242	1	0.43	0.062	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.187	93	40 - 135	
Tetrachloro-m-xylene	0.202	0.143	71	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW309I-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-02

Sampled: 01/11/12 10:00

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	130	ug/L	8.1	10	20		01/30/12 11:37

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW309S-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201112-02

Sampled: 01/10/12 15:00

Prepared: 01/11/12 08:14

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201170

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	8.9	ug/L	0.3	1.0	1.0		01/11/12 10:10

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW309I-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-02

Sampled: 01/11/12 10:00

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	49	ug/L	0.20	0.50	1.0		01/31/12 15:15

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW309I-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-02

Sampled: 01/11/12 10:00

Prepared: 01/12/12 08:23

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201249

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	2	47.7	ug/L	0.6	2.0	2.0		01/12/12 09:58

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-03

File ID: 1201126-03.D

Sampled: 01/11/12 14:10

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 18:20

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.27	0.19	0.50	1.0	J
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-03

File ID: 1201126-03.D

Sampled: 01/11/12 14:10

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 18:20

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	1.1	0.16	0.50	1.0	
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	1.8	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.45	0.22	0.50	1.0	J
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.6	99	85 - 115	
1,2-Dichloroethane-d4	40.0	40.7	102	70 - 120	
Toluene-d8	40.0	40.1	100	85 - 120	
4-Bromofluorobenzene	40.0	38.8	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	617610	5.12	92	5.13	
Chlorobenzene-d5	562579	8.08	93	8.08	
1,4-Dichlorobenzene-d4	303302	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Ground Water

Laboratory ID: 1201126-03

File ID: A86_342-0

Sampled: 01/11/12 14:10

Prepared: 01/13/12 08:41

Analyzed: 01/16/12 18:58

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 940 mL / 2 mL

QC Batch: 1201186

Sequence: 2A20016

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.085	0.057	0.085	0.21	U
11104-28-2	PCB-1221	1	0.085	0.048	0.085	0.21	U
11141-16-5	PCB-1232	1	0.085	0.044	0.085	0.21	U
53469-21-9	PCB-1242	1	0.085	0.066	0.085	0.21	U
12672-29-6	PCB-1248	1	0.085	0.058	0.085	0.21	U
11097-69-1	PCB-1254	1	0.085	0.057	0.085	0.21	U
11096-82-5	PCB-1260	1	0.085	0.031	0.085	0.21	U
37324-23-5	PCB-1262	1	0.085	0.085	0.085	0.21	U
11100-14-4	PCB-1268	1	0.085	0.042	0.085	0.21	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.213	0.197	93	40 - 135	
Tetrachloro-m-xylene	0.213	0.164	77	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-03

Sampled: 01/11/12 14:10

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	2400	ug/L	8.1	10	20		01/30/12 11:41

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-TT-MW309D-01112012-F

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-04

Sampled: 01/11/12 14:10

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201439

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Dissolved	1	31	ug/L	8.1	10	20		01/26/12 14:27

INORGANIC ANALYSIS DATA SHEET

USEPA-6020A

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-03

Sampled: 01/11/12 14:10

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	7.5	ug/L	0.20	0.50	1.0		01/31/12 15:16

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-TT-MW309D-01112012-F

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-04

Sampled: 01/11/12 14:10

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201438

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Dissolved	1	0.56	ug/L	0.20	0.50	1.0	J	01/31/12 14:57

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-TT-MW309D-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Ground Water

Laboratory ID: 1201126-03

Sampled: 01/11/12 14:10

Prepared: 01/12/12 08:23

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201249

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/12/12 10:00

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-01

File ID: 1110398-01.D

Sampled: 10/19/11 11:00

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 16:05

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1J31056

Calibration: 1J28012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-01

File ID: 1110398-01.D

Sampled: 10/19/11 11:00

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 16:05

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1131056

Calibration: 1128012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.1	105	85 - 115	
1,2-Dichloroethane-d4	40.0	38.7	97	70 - 120	
Toluene-d8	40.0	39.3	98	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Fluorobenzene	650570	5.13	746237	5.13	
Chlorobenzene-d5	502992	8.08	548111	8.08	
1,4-Dichlorobenzene-d4	258254	10.38	303977	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WJ

Matrix: Surface Water

Laboratory ID: 1110398-01

File ID: A83 044-0

Sampled: 10/19/11 11:00

Prepared: 10/25/11 08:26

Analyzed: 10/27/11 08:56

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1111570

Sequence: 1J31031

Calibration: 1J31007

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.173	86	40 - 135	
Tetrachloro-m-xylene	0.202	0.149	74	36 - 114	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WJ

Matrix: Surface Water

Laboratory ID: 1110398-01RE1

File ID: A83 158-0

Sampled: 10/19/11 11:00

Prepared: 10/25/11 08:26

Analyzed: 10/31/11 19:37

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 990 mL / 2 mL

QC Batch: 1111570

Sequence: 1K02044

Calibration: 1K02011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	1	0.35	0.054	0.080	0.20	

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.202	0.181	89	40 - 135	
Tetrachloro-m-xylene	0.202	0.158	78	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-01

Sampled: 10/19/11 11:00

Prepared: 11/02/11 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1112149

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	240	ug/L	8.1	10	20		11/04/11 08:44

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.
 Client: TETRA TECHNUS - Pittsburgh
 Matrix: Surface Water
 Sampled: 10/19/11 11:00
 Solids: 0.00
 QC Batch: 1112150

SDG: 50063-9
 Project: NWIRP Bethpage, NY 6-CTO WE44
 Laboratory ID: 1110398-01
 Prepared: 11/02/11 07:00
 Preparation: 3020A Digestion
 Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	2.4	ug/L	0.20	0.50	1.0		11/04/11 08:30

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPSI-SW3001

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-01

Sampled: 10/19/11 11:00

Prepared: 10/20/11 10:29

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1112234

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	0.4	ug/L	0.3	1.0	1.0	J	10/20/11 10:37

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-02

File ID: 1110398-02.D

Sampled: 10/19/11 11:30

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 16:33

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1J31056

Calibration: 1J28012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	J
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-02

File ID: 1110398-02.D

Sampled: 10/19/11 11:30

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 16:33

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1J31056

Calibration: 1J28012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	105	85 - 115	
1,2-Dichloroethane-d4	40.0	40.3	101	70 - 120	
Toluene-d8	40.0	39.4	99	85 - 120	
4-Bromofluorobenzene	40.0	38.2	96	75 - 120	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Fluorobenzene	662424	5.13	746237	5.13	
Chlorobenzene-d5	506412	8.08	548111	8.08	
1,4-Dichlorobenzene-d4	269627	10.38	303977	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO W1

Matrix: Surface Water

Laboratory ID: 1110398-02

File ID: A83 045-0

Sampled: 10/19/11 11:30

Prepared: 10/25/11 08:26

Analyzed: 10/27/11 09:20

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 800 mL / 2 mL

QC Batch: 1111570

Sequence: 1J31031

Calibration: 1J31007

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.10	0.067	0.10	0.25	U
11104-28-2	PCB-1221	1	0.10	0.057	0.10	0.25	U
11141-16-5	PCB-1232	1	0.10	0.051	0.10	0.25	U
53469-21-9	PCB-1242	1	0.10	0.077	0.10	0.25	U
12672-29-6	PCB-1248	1	0.10	0.068	0.10	0.25	U
11097-69-1	PCB-1254	1	0.10	0.066	0.10	0.25	U
11096-82-5	PCB-1260	1	0.10	0.036	0.10	0.25	U
37324-23-5	PCB-1262	1	0.10	0.10	0.10	0.25	U
11100-14-4	PCB-1268	1	0.10	0.050	0.10	0.25	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.250	0.216	86	40 - 135	
Tetrachloro-m-xylene	0.250	0.186	75	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-02

Sampled: 10/19/11 11:30

Prepared: 11/02/11 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1112149

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	150	ug/L	8.1	10	20		11/04/11 08:48

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-02

Sampled: 10/19/11 11:30

Prepared: 11/02/11 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1112150

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.84	ug/L	0.20	0.50	1.0	J	11/04/11 08:38

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPSI-SW3002

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Surface Water

Laboratory ID: 1110398-02

Sampled: 10/19/11 11:30

Prepared: 10/20/11 10:29

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1112234

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	0.4	ug/L	0.3	1.0	1.0	J	10/20/11 10:39

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-0005

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WJ

Matrix: Soil

Laboratory ID: 1110398-06

File ID: A83 032-0

Sampled: 10/19/11 13:15

Prepared: 10/26/11 08:22

Analyzed: 10/27/11 04:05

Solids: 95.74

Preparation: 3550C Sonication Extrac

Initial/Final: 30.2 g / 10 mL

QC Batch: 1111759

Sequence: 1J31022

Calibration: 1J31005

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.017	0.013	0.017	0.34	U
11104-28-2	PCB-1221	1	0.017	0.012	0.017	0.34	U
11141-16-5	PCB-1232	1	0.0070	0.0028	0.0070	0.34	U
53469-21-9	PCB-1242	1	0.017	0.011	0.017	0.34	U
11097-69-1	PCB-1254	1	0.0070	0.0036	0.0070	0.34	U
11096-82-5	PCB-1260	1	0.017	0.0051	0.017	0.34	U
37324-23-5	PCB-1262	1	0.0070	0.0019	0.0070	0.34	U
11100-14-4	PCB-1268	1	0.0070	0.0030	0.0070	0.34	U

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0346	0.0298	86	60 - 125	
Tetrachloro-m-xylene	0.0346	0.0304	88	32 - 129	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-0005

Laboratory: TriMatrix Laboratories, Inc. SDG: 50063-9
 Client: TETRA TECH NUS - Pittsburgh Project: NWIRP Bethpage, NY 6-CTO WJ
 Matrix: Soil Laboratory ID: 1110398-06RE1 File ID: A83 163-0
 Sampled: 10/19/11 13:15 Prepared: 10/26/11 08:22 Analyzed: 10/31/11 21:38
 Solids: 95.74 Preparation: 3550C Sonication Extrac Initial/Final: 30.2 g / 10 mL
 QC Batch: 1111759 Sequence: 1K02044 Calibration: 1K02011 Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	10	1.3	0.029	0.070	0.34	

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0346	0.0325	94	60 - 125	
Tetrachloro-m-xylene	0.0346	0.0280	81	32 - 129	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-3550B

BPSI-TT-MW309-0005

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Soil

Laboratory ID: 1110398-06

Sampled: 10/19/11 13:15

Prepared: 10/25/11 12:06

Solids: 95.74

Preparation: General Inorganic Prep

QC Batch: 1111711

Initial/Final: 10 g / 10 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
	Percent Solids	1	96	%	0.1	0.1	0.1		10/25/11 12:30

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-0510

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO W1

Matrix: Soil

Laboratory ID: 1110398-07

File ID: A83 033-0

Sampled: 10/19/11 13:30

Prepared: 10/26/11 08:22

Analyzed: 10/27/11 04:29

Solids: 95.86

Preparation: 3550C Sonication Extrac

Initial/Final: 29.4 g / 10 mL

QC Batch: 1111759

Sequence: 1J31022

Calibration: 1J31005

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.017	0.013	0.017	0.34	U
11104-28-2	PCB-1221	1	0.017	0.012	0.017	0.34	U
11141-16-5	PCB-1232	1	0.0070	0.0028	0.0070	0.34	U
53469-21-9	PCB-1242	1	0.017	0.011	0.017	0.34	U
11097-69-1	PCB-1254	1	0.0070	0.0035	0.0070	0.34	U
11096-82-5	PCB-1260	1	0.017	0.0051	0.017	0.34	U
37324-23-5	PCB-1262	1	0.0070	0.0019	0.0070	0.34	U
11100-14-4	PCB-1268	1	0.0070	0.0030	0.0070	0.34	U

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0355	0.0299	84	60 - 125	
Tetrachloro-m-xylene	0.0355	0.0319	90	32 - 129	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-0510

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO W1

Matrix: Soil

Laboratory ID: 1110398-07RE1

File ID: A83_164-0

Sampled: 10/19/11 13:30

Prepared: 10/26/11 08:22

Analyzed: 10/31/11 22:03

Solids: 95.86

Preparation: 3550C Sonication Extrac

Initial/Final: 29.4 g / 10 mL

QC Batch: 1111759

Sequence: 1K02044

Calibration: 1K02011

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	5	0.72	0.015	0.035	0.34	

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0355	0.0362	102	60 - 125	
Tetrachloro-m-xylene	0.0355	0.0314	88	32 - 129	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-3550B

BPSI-TT-MW309-0510

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Soil

Laboratory ID: 1110398-07

Sampled: 10/19/11 13:30

Prepared: 10/25/11 12:06

Solids: 95.86

Preparation: General Inorganic Prep

QC Batch: 1111711

Initial/Final: 10 g / 10 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
	Percent Solids	1	96	%	0.1	0.1	0.1		10/25/11 12:30

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-1015

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO W1

Matrix: Soil

Laboratory ID: 1110398-05

File ID: A83 031-0

Sampled: 10/19/11 14:15

Prepared: 10/26/11 08:22

Analyzed: 10/27/11 03:40

Solids: 95.38

Preparation: 3550C Sonication Extrac

Initial/Final: 29.8 g / 10 mL

QC Batch: 1111759

Sequence: 1J31022

Calibration: 1J31005

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.018	0.013	0.018	0.35	U
11104-28-2	PCB-1221	1	0.018	0.012	0.018	0.35	U
11141-16-5	PCB-1232	1	0.0070	0.0028	0.0070	0.35	U
53469-21-9	PCB-1242	1	0.018	0.011	0.018	0.35	U
11097-69-1	PCB-1254	1	0.0070	0.0036	0.0070	0.35	U
11096-82-5	PCB-1260	1	0.018	0.0051	0.018	0.35	U
37324-23-5	PCB-1262	1	0.0070	0.0019	0.0070	0.35	U
11100-14-4	PCB-1268	1	0.0070	0.0030	0.0070	0.35	U

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0352	0.0309	88	60 - 125	
Tetrachloro-m-xylene	0.0352	0.0375	106	32 - 129	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-1015

Laboratory: TriMatrix Laboratories, Inc. SDG: 50063-9
Client: TETRA TECH NUS - Pittsburgh Project: NWIRP Bethpage, NY 6-CTO W1
Matrix: Soil Laboratory ID: 1110398-05RE1 File ID: A83_162-0
Sampled: 10/19/11 14:15 Prepared: 10/26/11 08:22 Analyzed: 10/31/11 21:14
Solids: 95.38 Preparation: 3550C Sonication Extrac Initial/Final: 29.8 g / 10 mL
QC Batch: 1111759 Sequence: 1K02044 Calibration: 1K02011 Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	50	7.0	0.15	0.35	0.68	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-3550B

BPSI-TT-MW309-1015

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Soil

Laboratory ID: 1110398-05

Sampled: 10/19/11 14:15

Prepared: 10/25/11 12:06

Solids: 95.38

Preparation: General Inorganic Prep

QC Batch: 1111711

Initial/Final: 10 g / 10 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
	Percent Solids	1	95	%	0.1	0.1	0.1		10/25/11 12:30

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-1520

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WJ

Matrix: Soil

Laboratory ID: 1110398-03

File ID: A83 029-0

Sampled: 10/19/11 14:00

Prepared: 10/26/11 08:22

Analyzed: 10/27/11 02:52

Solids: 96.24

Preparation: 3550C Sonication Extrac

Initial/Final: 29.3 g / 10 mL

QC Batch: 1111759

Sequence: 1J31022

Calibration: IJ31005

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.017	0.013	0.017	0.34	U
11104-28-2	PCB-1221	1	0.017	0.012	0.017	0.34	U
11141-16-5	PCB-1232	1	0.0070	0.0028	0.0070	0.34	U
53469-21-9	PCB-1242	1	0.017	0.011	0.017	0.34	U
11097-69-1	PCB-1254	1	0.0070	0.0035	0.0070	0.34	U
11096-82-5	PCB-1260	1	0.017	0.0051	0.017	0.34	U
37324-23-5	PCB-1262	1	0.0070	0.0019	0.0070	0.34	U
11100-14-4	PCB-1268	1	0.0070	0.0030	0.0070	0.34	U

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0355	0.0324	91	60 - 125	
Tetrachloro-m-xylene	0.0355	0.0317	89	32 - 129	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-1520

Laboratory: TriMatrix Laboratories, Inc. SDG: 50063-9
Client: TETRA TECH NUS - Pittsburgh Project: NWIRP Bethpage, NY 6-CTO WJ
Matrix: Soil Laboratory ID: 1110398-03RE1 File ID: A83_160-0
Sampled: 10/19/11 14:00 Prepared: 10/26/11 08:22 Analyzed: 10/31/11 20:26
Solids: 96.24 Preparation: 3550C Sonication Extrac Initial/Final: 29.3 g / 10 mL
QC Batch: 1111759 Sequence: 1K02044 Calibration: 1K02011 Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	20	2.9	0.058	0.14	0.34	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-3550B

BPSI-TT-MW309-1520

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Soil

Laboratory ID: 1110398-03

Sampled: 10/19/11 14:00

Prepared: 10/25/11 12:06

Solids: 96.24

Preparation: General Inorganic Prep

QC Batch: 1111711

Initial/Final: 10 g / 10 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
	Percent Solids	1	96	%	0.1	0.1	0.1		10/25/11 12:30

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPSI-TT-MW309-2025

Laboratory: TriMatrix Laboratories, Inc. SDG: 50063-9
 Client: TETRA TECHNUS - Pittsburgh Project: NWIRP Bethpage, NY 6-CTO WJ
 Matrix: Soil Laboratory ID: 1110398-04 File ID: A83_030-0
 Sampled: 10/19/11 13:45 Prepared: 10/26/11 08:22 Analyzed: 10/27/11 03:16
 Solids: 96.86 Preparation: 3550C Sonication Extrac Initial/Final: 29.4 g / 10 mL
 QC Batch: 1111759 Sequence: 1J31022 Calibration: 1J31005 Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.017	0.013	0.017	0.34	U
11104-28-2	PCB-1221	1	0.017	0.012	0.017	0.34	U
11141-16-5	PCB-1232	1	0.0069	0.0028	0.0069	0.34	U
53469-21-9	PCB-1242	1	0.017	0.011	0.017	0.34	U
11097-69-1	PCB-1254	1	0.0069	0.0035	0.0069	0.34	U
11096-82-5	PCB-1260	1	0.017	0.0051	0.017	0.34	U
37324-23-5	PCB-1262	1	0.0069	0.0019	0.0069	0.34	U
11100-14-4	PCB-1268	1	0.0069	0.0030	0.0069	0.34	U

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0351	0.0327	93	60 - 125	
Tetrachloro-m-xylene	0.0351	0.0326	93	32 - 129	

* Values outside of QC limits

**ORGANIC ANALYSIS DATA SHEET
USEPA-8082**

BPSI-TT-MW309-2025

Laboratory: TriMatrix Laboratories, Inc. SDG: 50063-9
 Client: TETRA TECH NUS - Pittsburgh Project: NWIRP Bethpage, NY 6-CTO W1
 Matrix: Soil Laboratory ID: 1110398-04RE1 File ID: A83 161-0
 Sampled: 10/19/11 13:45 Prepared: 10/26/11 08:22 Analyzed: 10/31/11 20:50
 Solids: 96.86 Preparation: 3550C Sonication Extrac Initial/Final: 29.4 g / 10 mL
 QC Batch: 1111759 Sequence: 1K02044 Calibration: 1K02011 Instrument: 144

CAS No.	Analyte	Dilution	CONC. (mg/kg dry)	DL	LOD	LOQ	Q
12672-29-6	PCB-1248	2	0.46	0.0058	0.014	0.34	

System Monitoring Compound	ADDED (mg/kg dry)	CONC (mg/kg dry)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.0351	0.0355	101	60 - 125	
Tetrachloro-m-xylene	0.0351	0.0350	100	32 - 129	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-3550B

BPSI-TT-MW309-2025

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Soil

Laboratory ID: 1110398-04

Sampled: 10/19/11 13:45

Prepared: 10/25/11 12:06

Solids: 96.86

Preparation: General Inorganic Prep

QC Batch: 1111711

Initial/Final: 10 g / 10 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
	Percent Solids	1	97	%	0.1	0.1	0.1		10/25/11 12:30

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

File ID: 1201244-02.D

Sampled: 01/18/12 08:10

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:01

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.56	0.27	0.50	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

File ID: 1201244-02.D

Sampled: 01/18/12 08:10

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:01

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	7.0	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.5	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.1	100	70 - 120	
Toluene-d8	40.0	40.4	101	85 - 120	
4-Bromofluorobenzene	40.0	38.2	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	505584	5.13	85	5.13	
Chlorobenzene-d5	473250	8.08	86	8.08	
1,4-Dichlorobenzene-d4	252238	10.38	78	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Water

Laboratory ID: 1201244-02

File ID: A87 024-0

Sampled: 01/18/12 08:10

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 18:51

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.197	97	40 - 135	
Tetrachloro-m-xylene	0.204	0.161	79	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

Sampled: 01/18/12 08:10

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	8.2	ug/L	8.1	10	20	J	01/30/12 13:02

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

Sampled: 01/18/12 08:10

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201439

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Dissolved	1	10	ug/L	8.1	10	20	U	01/26/12 14:30

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

Sampled: 01/18/12 08:10

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.50	ug/L	0.20	0.50	1.0	U	01/31/12 15:39

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

Sampled: 01/18/12 08:10

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201438

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Dissolved	1	0.50	ug/L	0.20	0.50	1.0	U	01/31/12 14:58

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-FB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-02

Sampled: 01/18/12 08:10

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201625

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/19/12 11:15

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-08

File ID: 1201310-08.D

Sampled: 01/23/12 14:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:59

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	16	0.66	1.0	10	
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	4.4	0.10	0.25	1.0	
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	3.1	0.094	0.25	1.0	
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-08

File ID: 1201310-08.D

Sampled: 01/23/12 14:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:59

Solids:

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.51	0.057	0.10	1.0	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	42.4	106	85 - 115	
1,2-Dichloroethane-d4	40.0	39.9	100	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	39.1	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	485580	5.13	92	5.13	
Chlorobenzene-d5	463774	8.08	91	8.08	
1,4-Dichlorobenzene-d4	261261	10.38	88	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Water

Laboratory ID: 1201310-08

File ID: A87_093-0

Sampled: 01/23/12 14:30

Prepared: 01/25/12 08:27

Analyzed: 01/27/12 01:45

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 970 mL / 2 mL

QC Batch: 1201593

Sequence: 2B03015

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.206	0.176	85	40 - 135	
Tetrachloro-m-xylene	0.206	0.151	73	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-08

Sampled: 01/23/12 14:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	320	ug/L	8.1	10	20		01/30/12 16:03

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-08

Sampled: 01/23/12 14:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.79	ug/L	0.20	0.50	1.0	J	01/31/12 16:41

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-FB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-08

Sampled: 01/23/12 14:30

Prepared: 01/24/12 10:38

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201753

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	0.5	ug/L	0.3	1.0	1.0	J	01/24/12 11:32

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

File ID: 1201244-03.D

Sampled: 01/18/12 08:20

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:28

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

File ID: 1201244-03.D

Sampled: 01/18/12 08:20

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 11:28

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	6.4	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.7	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.1	100	70 - 120	
Toluene-d8	40.0	40.5	101	85 - 120	
4-Bromofluorobenzene	40.0	38.4	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	533503	5.13	89	5.13	
Chlorobenzene-d5	498059	8.08	90	8.08	
1,4-Dichlorobenzene-d4	268759	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Water

Laboratory ID: 1201244-03

File ID: A87 025-0

Sampled: 01/18/12 08:20

Prepared: 01/23/12 11:04

Analyzed: 01/25/12 19:15

Solids:

Preparation: 3510C Liquid-Liquid Exl

Initial/Final: 980 mL / 2 mL

QC Batch: 1201461

Sequence: 2A31043

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.080	0.054	0.080	0.20	U
11104-28-2	PCB-1221	1	0.080	0.045	0.080	0.20	U
11141-16-5	PCB-1232	1	0.080	0.041	0.080	0.20	U
53469-21-9	PCB-1242	1	0.080	0.062	0.080	0.20	U
12672-29-6	PCB-1248	1	0.080	0.054	0.080	0.20	U
11097-69-1	PCB-1254	1	0.080	0.053	0.080	0.20	U
11096-82-5	PCB-1260	1	0.080	0.029	0.080	0.20	U
37324-23-5	PCB-1262	1	0.080	0.080	0.080	0.20	U
11100-14-4	PCB-1268	1	0.080	0.040	0.080	0.20	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.204	0.189	93	40 - 135	
Tetrachloro-m-xylene	0.204	0.150	74	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

Sampled: 01/18/12 08:20

Prepared: 01/23/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201435

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	29	ug/L	8.1	10	20		01/30/12 13:06

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

Sampled: 01/18/12 08:20

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201439

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Dissolved	1	10	ug/L	8.1	10	20	U	01/26/12 14:34

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

Sampled: 01/18/12 08:20

Prepared: 01/20/12 05:30

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201434

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.50	ug/L	0.20	0.50	1.0	U	01/31/12 15:40

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

Sampled: 01/18/12 08:20

Prepared: 01/24/12 07:00

Solids: 0.00

Preparation: General Metals Prep

QC Batch: 1201438

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Dissolved	1	0.50	ug/L	0.20	0.50	1.0	U	01/31/12 14:59

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-RB01-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-03

Sampled: 01/18/12 08:20

Prepared: 01/19/12 10:34

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201625

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	0.4	ug/L	0.3	1.0	1.0	J	01/19/12 11:19

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-06

File ID: 1201310-06.D

Sampled: 01/23/12 13:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:32

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-06

File ID: 1201310-06.D

Sampled: 01/23/12 13:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:32

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	6.5	0.18	0.50	1.0	
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.5	104	85 - 115	
1,2-Dichloroethane-d4	40.0	39.7	99	70 - 120	
Toluene-d8	40.0	40.6	102	85 - 120	
4-Bromofluorobenzene	40.0	38.7	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	503272	5.13	95	5.13	
Chlorobenzene-d5	473597	8.08	93	8.08	
1,4-Dichlorobenzene-d4	257827	10.38	87	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8082A

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO W

Matrix: Water

Laboratory ID: 1201310-06

File ID: A87 089-0

Sampled: 01/23/12 13:30

Prepared: 01/25/12 08:27

Analyzed: 01/27/12 00:08

Solids:

Preparation: 3510C Liquid-Liquid Ex

Initial/Final: 850 mL / 2 mL

QC Batch: 1201593

Sequence: 2B06054

Calibration: 2A20001

Instrument: 144

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
12674-11-2	PCB-1016	1	0.094	0.063	0.094	0.24	U
11104-28-2	PCB-1221	1	0.094	0.053	0.094	0.24	U
11141-16-5	PCB-1232	1	0.094	0.048	0.094	0.24	U
53469-21-9	PCB-1242	1	0.094	0.073	0.094	0.24	U
12672-29-6	PCB-1248	1	0.094	0.064	0.094	0.24	U
11097-69-1	PCB-1254	1	0.094	0.063	0.094	0.24	U
11096-82-5	PCB-1260	1	0.094	0.034	0.094	0.24	U
37324-23-5	PCB-1262	1	0.094	0.094	0.094	0.24	U
11100-14-4	PCB-1268	1	0.094	0.047	0.094	0.24	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% Rec.	QC Limits	Q
Decachlorobiphenyl	0.235	0.239	102	40 - 135	
Tetrachloro-m-xylene	0.235	0.175	74	36 - 114	

* Values outside of QC limits

INORGANIC ANALYSIS DATA SHEET
USEPA-6010C

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-06

Sampled: 01/23/12 13:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3010A Digestion

QC Batch: 1201621

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7439-89-6	Iron, Total	1	12	ug/L	8.1	10	20	J	01/30/12 15:54

INORGANIC ANALYSIS DATA SHEET
USEPA-6020A

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-06

Sampled: 01/23/12 13:30

Prepared: 01/27/12 07:00

Solids: 0.00

Preparation: 3020A Digestion

QC Batch: 1201622

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
7440-47-3	Chromium, Total	1	0.50	ug/L	0.20	0.50	1.0	U	01/31/12 16:39

INORGANIC ANALYSIS DATA SHEET
USEPA-7196A

BPS1-RB02-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-06

Sampled: 01/23/12 13:30

Prepared: 01/24/12 10:38

Solids: 0.00

Preparation: Method-Specific Preparation

QC Batch: 1201753

Initial/Final: 25 mL / 25 mL

CAS No.	Analyte	Dil. Factor	Conc.	Units	DL	LOD	LOQ	Q	Analyzed
18540-29-9	Chromium, Hexavalent-Dissolved	1	1.0	ug/L	0.3	1.0	1.0	U	01/24/12 11:26

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-TT-TB1019

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Water

Laboratory ID: 1110398-08

File ID: 1110398-08.D

Sampled: 10/19/11 08:00

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 17:01

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1J31056

Calibration: 1J28012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	19	0.66	1.0	10	
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	2.3	0.28	0.50	5.0	J

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPSI-TT-TB1019

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-9

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 6-CTO WE44

Matrix: Water

Laboratory ID: 1110398-08

File ID: 1110398-08.D

Sampled: 10/19/11 08:00

Prepared: 10/31/11 07:00

Analyzed: 10/31/11 17:01

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1112065

Sequence: 1J31056

Calibration: 1J28012

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.070	0.057	0.10	1.0	J
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.6	104	85 - 115	
1,2-Dichloroethane-d4	40.0	38.8	97	70 - 120	
Toluene-d8	40.0	38.2	95	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	Ref. Area	Ref. RT	Q
Fluorobenzene	670510	5.13	746237	5.13	
Chlorobenzene-d5	492287	8.08	548111	8.08	
1,4-Dichlorobenzene-d4	260954	10.38	303977	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201112-01

File ID: 1201112-01.D

Sampled: 01/10/12 12:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 16:29

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB-01102012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECHNUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201112-01

File ID: 1201112-01.D

Sampled: 01/10/12 12:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 16:29

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.1	100	85 - 115	
1,2-Dichloroethane-d4	40.0	40.3	101	70 - 120	
Toluene-d8	40.0	39.9	100	85 - 120	
4-Bromofluorobenzene	40.0	39.5	99	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	630847	5.13	94	5.13	
Chlorobenzene-d5	566164	8.08	94	8.08	
1,4-Dichlorobenzene-d4	309320	10.38	91	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201126-01

File ID: 1201126-01.D

Sampled: 01/11/12 08:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 16:57

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB-01112012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201126-01

File ID: 1201126-01.D

Sampled: 01/11/12 08:00

Prepared: 01/18/12 13:00

Analyzed: 01/18/12 16:57

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201389

Sequence: 2A19006

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	40.3	101	85 - 115	
1,2-Dichloroethane-d4	40.0	40.2	100	70 - 120	
Toluene-d8	40.0	39.8	100	85 - 120	
4-Bromofluorobenzene	40.0	39.1	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	623326	5.13	93	5.13	
Chlorobenzene-d5	562862	8.08	93	8.08	
1,4-Dichlorobenzene-d4	303695	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB01-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201218-01

File ID: 1201218-01.D

Sampled: 01/16/12 09:35

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:00

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.0	0.66	1.0	10	U
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB01-01162012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201218-01

File ID: 1201218-01.D

Sampled: 01/16/12 09:35

Prepared: 01/23/12 08:00

Analyzed: 01/23/12 11:00

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201552

Sequence: 2A24017

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	39.8	99	85 - 115	
1,2-Dichloroethane-d4	40.0	39.3	98	70 - 120	
Toluene-d8	40.0	40.4	101	85 - 120	
4-Bromofluorobenzene	40.0	39.3	98	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	593671	5.13	99	5.13	
Chlorobenzene-d5	554448	8.08	97	8.08	
1,4-Dichlorobenzene-d4	306295	10.38	90	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB02-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-01

File ID: 1201244-01.D

Sampled: 01/18/12 08:00

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 10:33

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	2.5	0.66	1.0	10	J
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.48	0.27	0.50	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB02-01182012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-12

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201244-01

File ID: 1201244-01.D

Sampled: 01/18/12 08:00

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 10:33

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.1	103	85 - 115	
1,2-Dichloroethane-d4	40.0	39.7	99	70 - 120	
Toluene-d8	40.0	40.5	101	85 - 120	
4-Bromofluorobenzene	40.0	38.3	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	542121	5.13	91	5.13	
Chlorobenzene-d5	507994	8.08	92	8.08	
1,4-Dichlorobenzene-d4	269865	10.38	84	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201254-01

File ID: 1201254-01.D

Sampled: 01/19/12 07:45

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 14:14

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	3.0	0.66	1.0	10	J
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB03-01192012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201254-01

File ID: 1201254-01.D

Sampled: 01/19/12 07:45

Prepared: 01/24/12 08:00

Analyzed: 01/24/12 14:14

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201603

Sequence: 2A25008

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.8	104	85 - 115	
1,2-Dichloroethane-d4	40.0	40.7	102	70 - 120	
Toluene-d8	40.0	40.6	101	85 - 120	
4-Bromofluorobenzene	40.0	38.2	95	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	525118	5.13	88	5.13	
Chlorobenzene-d5	495767	8.08	90	8.08	
1,4-Dichlorobenzene-d4	264019	10.38	82	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB04-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201287-01

File ID: 1201287-01.D

Sampled: 01/20/12 07:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 10:36

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	1.4	0.66	1.0	10	J
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB04-01202012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201287-01

File ID: 1201287-01.D

Sampled: 01/20/12 07:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 10:36

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.4	103	85 - 115	
1,2-Dichloroethane-d4	40.0	39.2	98	70 - 120	
Toluene-d8	40.0	40.8	102	85 - 120	
4-Bromofluorobenzene	40.0	38.4	96	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	521127	5.13	98	5.13	
Chlorobenzene-d5	489374	8.08	96	8.08	
1,4-Dichlorobenzene-d4	262068	10.38	89	10.38	

* Values outside of QC limits

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB05-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-01

File ID: 1201310-01.D

Sampled: 01/23/12 07:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:04

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1	2.8	0.66	1.0	10	J
71-43-2	Benzene	1	0.50	0.12	0.50	1.0	U
74-97-5	Bromochloromethane	1	0.50	0.16	0.50	1.0	U
75-27-4	Bromodichloromethane	1	0.50	0.13	0.50	1.0	U
75-25-2	Bromoform	1	0.25	0.10	0.25	1.0	U
74-83-9	Bromomethane	1	0.50	0.28	0.50	1.0	U
75-15-0	Carbon Disulfide	1	0.50	0.19	0.50	5.0	U
56-23-5	Carbon Tetrachloride	1	0.50	0.14	0.50	1.0	U
108-90-7	Chlorobenzene	1	0.50	0.13	0.50	1.0	U
75-00-3	Chloroethane	1	0.50	0.15	0.50	1.0	U
67-66-3	Chloroform	1	0.50	0.16	0.50	1.0	U
74-87-3	Chloromethane	1	0.50	0.18	0.50	1.0	U
110-82-7	Cyclohexane	1	0.50	0.29	0.50	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.25	0.50	2.0	U
124-48-1	Dibromochloromethane	1	0.25	0.094	0.25	1.0	U
106-93-4	1,2-Dibromoethane	1	0.25	0.11	0.25	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.50	0.15	0.50	1.0	U
541-73-1	1,3-Dichlorobenzene	1	0.25	0.11	0.25	1.0	U
106-46-7	1,4-Dichlorobenzene	1	0.50	0.16	0.50	1.0	U
75-71-8	Dichlorodifluoromethane	1	0.50	0.25	0.50	1.0	U
75-34-3	1,1-Dichloroethane	1	0.50	0.19	0.50	1.0	U
107-06-2	1,2-Dichloroethane	1	0.50	0.12	0.50	1.0	U
75-35-4	1,1-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	0.50	0.17	0.50	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	0.50	0.11	0.50	1.0	U
78-87-5	1,2-Dichloropropane	1	0.50	0.15	0.50	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	0.10	0.050	0.10	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	0.25	0.11	0.25	1.0	U
123-91-1	1,4-Dioxane	1	25	10	25	50	U
100-41-4	Ethylbenzene	1	0.25	0.11	0.25	1.0	U
591-78-6	2-Hexanone	1	0.50	0.24	0.50	5.0	U
98-82-8	Isopropylbenzene	1	0.50	0.17	0.50	1.0	U
79-20-9	Methyl Acetate	1	0.50	0.27	0.50	5.0	U
1634-04-4	Methyl tert-Butyl Ether	1	0.50	0.13	0.50	1.0	U
108-87-2	Methylcyclohexane	1	0.50	0.23	0.50	5.0	U
75-09-2	Methylene Chloride	1	0.50	0.35	0.50	1.0	U
78-93-3	2-Butanone (MEK)	1	0.50	0.28	0.50	5.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

BPS1-TB05-01232012

Laboratory: TriMatrix Laboratories, Inc.

SDG: 50063-13

Client: TETRA TECH NUS - Pittsburgh

Project: NWIRP Bethpage, NY 01-CTO WE44(04)

Matrix: Water

Laboratory ID: 1201310-01

File ID: 1201310-01.D

Sampled: 01/23/12 07:30

Prepared: 01/26/12 08:00

Analyzed: 01/26/12 11:04

Solids:

Preparation: 5030B Aqueous Purge &

Initial/Final: 5 mL / 5 mL

QC Batch: 1201663

Sequence: 2A26019

Calibration: 2A18010

Instrument: 224

CAS No.	Analyte	Dilution	CONC. (ug/L)	DL	LOD	LOQ	Q
108-10-1	4-Methyl-2-pentanone (MIBK)	1	0.50	0.23	0.50	5.0	U
100-42-5	Styrene	1	0.10	0.056	0.10	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	0.12	0.50	1.0	U
127-18-4	Tetrachloroethene	1	0.50	0.16	0.50	1.0	U
108-88-3	Toluene	1	0.10	0.057	0.10	1.0	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	0.14	0.50	2.0	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	0.15	0.50	2.0	U
71-55-6	1,1,1-Trichloroethane	1	0.50	0.14	0.50	1.0	U
79-00-5	1,1,2-Trichloroethane	1	0.50	0.15	0.50	1.0	U
79-01-6	Trichloroethene	1	0.50	0.18	0.50	1.0	U
75-69-4	Trichlorofluoromethane	1	0.50	0.18	0.50	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.50	0.22	0.50	1.0	U
75-01-4	Vinyl Chloride	1	0.50	0.24	0.50	1.0	U
179601-23-1	Xylene, Meta + Para	1	0.50	0.29	0.50	2.0	U
95-47-6	Xylene, Ortho	1	0.25	0.10	0.25	1.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	41.4	103	85 - 115	
1,2-Dichloroethane-d4	40.0	39.7	99	70 - 120	
Toluene-d8	40.0	41.0	102	85 - 120	
4-Bromofluorobenzene	40.0	38.7	97	75 - 120	

Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	512195	5.13	97	5.13	
Chlorobenzene-d5	480926	8.08	95	8.08	
1,4-Dichlorobenzene-d4	260078	10.38	88	10.38	

* Values outside of QC limits

Appendix D
Validation Summaries



Tetra Tech

INTERNAL CORRESPONDENCE

TO: R. SOK **DATE:** FEBRUARY 17, 2012

FROM: A. COGNETTI **COPIES:** DV FILE

SUBJECT: ORGANIC AND INORGANIC DATA VALIDATION – VOC / PCB / METALS / MISCELLANEOUS
NWIRP BETHPAGE CTO WE44
SAMPLE DELIVERY GROUP (SDG) – 50063-9

SAMPLES: 3/Aqueous/VOC
BPSI-SW3001 BPSI-SW3002 BPSI-TT-TB1019

5/Soil/PCB
BPSI-TT-MW309-0005 BPSI-TT-MW309-0510 BPSI-TT-MW309-1015
BPSI-TT-MW309-1520 BPSI-TT-MW309-2025

2/Aqueous/PCB/Metals
BPSI-SW3001 BPSI-SW3002

Overview

The sample set for NWIRP Bethpage, CTO WE44, SDG 50063-9 consists of two (2) aqueous environmental samples and a trip blank analyzed for volatile organic compounds (VOCs). Five (5) soil environmental samples and two (2) aqueous environmental samples were analyzed for polychlorinated biphenyls (PCBs). Two (2) aqueous environmental samples were analyzed for iron, total chromium and dissolved hexavalent chromium. The soil samples were analyzed for percent solids.

The samples were collected by Tetra Tech on October 19, 2011 and analyzed by Trimatrix Laboratories. Analyses were conducted in accordance with EPA Methods SW-846 8260B, 8082, 6010C, 6020A, 7196A and 3550B analysis and reporting protocol. The data contained in this SDG were validated with regard to the following parameters:

- * ● Data completeness
- * ● Holding times
- * ● GC/MS Tuning
- Initial/continuing calibrations
- * ● Laboratory Method Blank/Field Blank Results
- * ● Surrogate Recoveries
- * ● Matrix Spike / Matrix Spike Duplicate Recoveries
- * ● Laboratory Control Sample Recoveries
- * ● Internal Standard Recoveries
- * ● ICP Interference Results
- * ● ICP Serial Dilution Results
- * ● Compound Quantitation
- * ● Compound Identification
- * ● Detection Limits

TO: R. Sok
FROM: A. Cognetti
SDG: 50063-9
DATE: February 17, 2012
PAGE: 2

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

Volatile

In the initial and continuing calibrations on October 27, 2011 and October 31, 2011 @ 8:11, 1,4-dioxane had a relative retention factor (RRF) less than the 0.05 quality control limit. The nondetected 1,4-dioxane results were qualified as rejected (UR) in the affected samples.

In the continuing calibration on October 31, 2011 @ 8:11, bromomethane and 2-hexanone had percent differences (%Ds) greater than the 20% quality control limit. The nondetected bromomethane and 2-hexanone results were qualified as estimated (UJ) in the affected samples.

Contamination was detected in the trip blank, BPSI-TT-TB1019.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
2-butanone	2.3	23
Acetone	19	190
Toluene	0.07	0.35

An action level of 10X the maximum concentration of common laboratory contaminants, acetone and 2-butanone, and 5X the maximum concentration of toluene was established in order to evaluate samples for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into account when applying the action level. Positive results less than the action level were qualified as (U).

PCB

All detected Aroclor 1248 results were qualified as estimated (J) because the laboratory indicated that a conclusive PCB Aroclor identification was not possible due to matrix interference and/or weathering of the sample. Method blank chromatograms did not indicate any contamination was present. The data reviewer examined the pattern and agreed with the laboratory regarding the Aroclor 1248 identification even though the pattern appears likely to contain another Aroclor mixture.

Additional Comments

Sample BPSI-TT-TB1019 was not listed on the chain of custody. The sample was added onto the chain of custody per Tetra Tech's request.

Contamination was detected in the continuing calibration blanks and method blank in the metals fraction.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Iron ⁽¹⁾	9.0	45.0
Chromium ⁽²⁾	-0.21	1.05

(1) Maximum concentration detected in method blank associated with batch 1112149.

(2) Maximum concentration detected in continuing calibration blank 2 analyzed on November 4, 2011 @ 8:21.

TO: R. Sok
FROM: A. Cognetti
SDG: 50063-9
DATE: February 17, 2012
PAGE: 3

An action level of 5X the maximum concentration was established on order to evaluate samples for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into account when applying the action level. No action was taken for the negative signal drift for chromium because the negative value was greater than the negative limit of detection.

The serial dilution %Ds for iron and chromium were greater than the 10% quality control limit. No action was taken because the sample concentration was less than 50X the IDL.

Positive results below the Reporting Limit (RL) and above the detection limit were qualified as estimated, (J), due to uncertainty near the detection limit.

Nondetected results are reported to the limit of detection (LOD).

EXECUTIVE SUMMARY

Laboratory Performance Issues: 1,4-dioxane had a RRF less than the 0.05 quality control limit resulting in the rejection of nondetected results. Bromomethane and 2-hexanone had %Ds greater than the 20% quality control limit resulting in the qualification of data. All detected Aroclor 1248 results were qualified as estimated (J) because the laboratory indicated that a conclusive PCB Aroclor identification was not possible due to matrix interference and/or weathering of the sample.

Other Factors Affecting Data Quality: BPSI-TT-TB1019 contained acetone, 2-butanone and toluene.

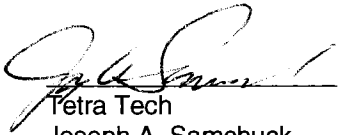
The data for these analyses were reviewed with reference to SOP # HW-24 Revision #2, August 2008, USEPA Region II Hazardous Waste Support Branch Validating Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846/8260B, SOP # HW-45 Revision #1, October 2006, USEPA Region II Hazardous Waste Support Branch Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A, SOP# HW-2, Revision 13, September 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on the SOW ILM05.3, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", April 2009.

TO: R. Sok
FROM: A. Cognetti
SDG: 50063-9
DATE: February 17, 2012
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The text of this report has been formulated to address only those problem areas affecting data quality.



Tetra Tech
Ann Cognetti
Chemist/Data Validator



Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as Reported by the Laboratory
3. Appendix C - Region II Data Validation Forms
4. Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02230 SDG: 50063-9 FRACTION: OV MEDIA: WATER	NSAMPLE	BPSI-SW3001			BPSI-SW3002			BPSI-TT-TB1019		
	LAB_ID	1110398-01			1110398-02			1110398-08		
	SAMP_DATE	10/19/2011			10/19/2011			10/19/2011		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		2.3	J	P	
2-HEXANONE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U	B	19			
BENZENE	0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-9 FRACTION: OV MEDIA: WATER	NSAMPLE	BPSI-SW3001			BPSI-SW3002			BPSI-TT-TB1019		
	LAB_ID	1110398-01			1110398-02			1110398-08		
	SAMP_DATE	10/19/2011			10/19/2011			10/19/2011		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		0.5	U		
TOLUENE	0.1	U		0.1	U		0.07	J	P	
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.5	U		0.5	U		0.5	U		
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-9 FRACTION: PCB MEDIA: SOIL	NSAMPLE	BPSI-TT-MW309-0005			BPSI-TT-MW309-0005RE1			BPSI-TT-MW309-0510			BPSI-TT-MW309-0510RE1		
	LAB_ID	1110398-06			1110398-06RE1			1110398-07			1110398-07RE1		
	SAMP_DATE	10/19/2011			10/19/2011			10/19/2011			10/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	96.0			96.0			96.0			96.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.017	U					0.017	U					
AROCLOR-1221	0.017	U					0.017	U					
AROCLOR-1232	0.007	U					0.007	U					
AROCLOR-1242	0.017	U					0.017	U					
AROCLOR-1248				1.3	J	Q				0.72	J	Q	
AROCLOR-1254	0.007	U					0.007	U					
AROCLOR-1260	0.017	U					0.017	U					
AROCLOR-1262	0.007	U					0.007	U					
AROCLOR-1268	0.007	U					0.007	U					

PROJ_NO: 02230 SDG: 50063-9 FRACTION: PCB MEDIA: SOIL	NSAMPLE	BPSI-TT-MW309-1015			BPSI-TT-MW309-1015RE1			BPSI-TT-MW309-1520			BPSI-TT-MW309-1520RE1		
	LAB_ID	1110398-05			1110398-05RE1			1110398-03			1110398-03RE1		
	SAMP_DATE	10/19/2011			10/19/2011			10/19/2011			10/19/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	MG/KG			MG/KG			MG/KG			MG/KG		
	PCT_SOLIDS	95.0			95.0			96.0			96.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.018	U					0.017	U					
AROCLOR-1221	0.018	U					0.017	U					
AROCLOR-1232	0.007	U					0.007	U					
AROCLOR-1242	0.018	U					0.017	U					
AROCLOR-1248				7	J	Q				2.9	J	Q	
AROCLOR-1254	0.007	U					0.007	U					
AROCLOR-1260	0.018	U					0.017	U					
AROCLOR-1262	0.007	U					0.007	U					
AROCLOR-1268	0.007	U					0.007	U					

PROJ_NO: 02230 SDG: 50063-9 FRACTION: PCB MEDIA: SOIL	NSAMPLE	BPSI-TT-MW309-2025			BPSI-TT-MW309-2025RE1		
	LAB_ID	1110398-04			1110398-04RE1		
	SAMP_DATE	10/19/2011			10/19/2011		
	QC_TYPE	NM			NM		
	UNITS	MG/KG			MG/KG		
	PCT_SOLIDS	97.0			97.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.017	U					
AROCLOR-1221	0.017	U					
AROCLOR-1232	0.0069	U					
AROCLOR-1242	0.017	U					
AROCLOR-1248				0.46	J	Q	
AROCLOR-1254	0.0069	U					
AROCLOR-1260	0.017	U					
AROCLOR-1262	0.0069	U					
AROCLOR-1268	0.0069	U					

PROJ_NO: 02230 SDG: 50063-9 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPSI-SW3001			BPSI-SW3001RE1			BPSI-SW3002		
	LAB_ID	1110398-01			1110398-01RE1			1110398-02		
	SAMP_DATE	10/19/2011			10/19/2011			10/19/2011		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.1	U		
AROCLOR-1221	0.08	U					0.1	U		
AROCLOR-1232	0.08	U					0.1	U		
AROCLOR-1242	0.08	U					0.1	U		
AROCLOR-1248				0.35	J	Q	0.1	U		
AROCLOR-1254	0.08	U					0.1	U		
AROCLOR-1260	0.08	U					0.1	U		
AROCLOR-1262	0.08	U					0.1	U		
AROCLOR-1268	0.08	U					0.1	U		

PROJ_NO: 02230 SDG: 50063-9 FRACTION: M MEDIA: WATER	NSAMPLE	BPSI-SW3001			BPSI-SW3002		
	LAB_ID	1110398-01			1110398-02		
	SAMP_DATE	10/19/2011			10/19/2011		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	2.4			0.84	J	P	
IRON	240			150			

PROJ_NO: 02230 SDG: 50063-9 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPSI-SW3001			BPSI-SW3002		
	LAB_ID	1110398-01			1110398-02		
	SAMP_DATE	10/19/2011			10/19/2011		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM	0.4	J	P	0.4	J	P	



TO: R. SOK DATE: MARCH 28, 2012

FROM: JOSEPH KALINYAK COPIES: DV FILE

SUBJECT: ORGANIC DATA VALIDATION – VOC, PCB
 NWIRP BETHPAGE, CTO WE44
 SAMPLE DELIVERY GROUP SDG 50063-12

SAMPLES: 27 / Aqueous / VOC

BPS1-Dup01-01172012	BPS1-FB01-01182012	BPS1-FW-MW02-01172012
BPS1-RB01-01182012	BPS1-TB-01102012	BPS1-TB-01112012
BPS1-TB01-01162012	BPS1-TB02-01182012	BPS1-TT-Dup02-01182012
BPS1-TT-MW301D-01172012	BPS1-TT-MW301I-01172012	BPS1-TT-MW301S-01172012
BPS1-TT-MW304I1-01182012	BPS1-TT-MW304S-01182012	BPS1-TT-MW305D-01172012
BPS1-TT-MW305I-01172012	BPS1-TT-MW305S-01172012	BPS1-TT-MW307D-01182012
BPS1-TT-MW307I-01182012	BPS1-TT-MW307S-01182012	BPS1-TT-MW308D-01162012
BPS1-TT-MW308I-01162012	BPS1-TT-MW308S-01162012	BPS1-TT-MW309D-01112012
BPS1-TT-MW309I-01112012	BPS1-TT-MW309S-01102012	BPS1-TTMW-304I2-01182012

23 / Aqueous / PCB

BPS1-Dup01-01172012	BPS1-FB01-01182012	BPS1-FW-MW02-01172012
BPS1-RB01-01182012	BPS1-TT-Dup02-01182012	BPS1-TT-MW301D-01172012
BPS1-TT-MW301I-01172012	BPS1-TT-MW301S-01172012	BPS1-TT-MW304I1-01182012
BPS1-TT-MW304S-01182012	BPS1-TT-MW305D-01172012	BPS1-TT-MW305I-01172012
BPS1-TT-MW305S-01172012	BPS1-TT-MW307D-01182012	BPS1-TT-MW307I-01182012
BPS1-TT-MW307S-01182012	BPS1-TT-MW308D-01162012	BPS1-TT-MW308I-01162012
BPS1-TT-MW308S-01162012	BPS1-TT-MW309D-01112012	BPS1-TT-MW309I-01112012
BPS1-TT-MW309S-01102012	BPS1-TTMW-304I2-01182012	

Overview

The sample set for NWIRP Bethpage, CTO WE44, SDG 50063-12 consisted of twenty-seven (27) aqueous samples, including one (1) aqueous rinse blank sample, one (1) aqueous field blank sample, and four (4) aqueous trip blank samples. All of the aqueous samples were analyzed for volatile organic compounds (VOC) as listed above. Twenty-three (23) of the aqueous samples were analyzed for polychlorinated biphenyls (PCB) as listed above. Two field duplicate sample pairs were included with this sample delivery group (SDG): BPS1-Dup01-01172012 / BPS1-TT-MW305S-01172012 and BPS1-TT-Dup02-01182012 / BPS1-TTMW-304I2-01182012.

The samples were collected by Tetra Tech on January 10, 11, 16, 17, and 18, 2012 and analyzed by Trimatrix Laboratories Inc. All analyses were conducted in accordance with EPA Methods SW-846 8260B for VOC and 8082 for PCB, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
- Initial/continuing Calibrations

- Method Blank Results
- * • Laboratory Control Sample Recovery
- * • Matrix Spike/Matrix Spike Duplicate Recoveries
- * • Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Field Duplicate Precision
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

VOC

The following VOC contaminant was detected in the method blank at the following maximum concentrations.

<u>Analyte</u>	<u>Maximum Conc. µg/L</u>	<u>Action Level µg/L</u>
Methyl acetate ⁽¹⁾	0.32	1.60

- ⁽¹⁾ Method blank for batch 1201603 affecting samples BPS1-TT-MW301I-01172012, BPS1-FW-MW02-01172012, BPS1-TB02-01182012, BPS1-FB01-01182012, BPS1-RB01-01182012, BPS1-TT-MW307D-01182012, BPS1-TT-MW304S-01182012, and BPS1-TT-MW307S-01182012.

An action level of five times the maximum level for methyl acetate has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive sample results less than the action level were qualified non-detected, (U). Acetone was detected in the trip blank samples BPS1-TB02-01182012. As none of the samples had positive acetone detections, no validation action for trip blank acetone contamination was necessary.

The initial calibration average relative response factor (RRF) was less than the 0.05 quality control limit for 1,4-dioxane for instrument 224 on 01/17/12 and on all continuing calibration verifications (CCV).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The continuing calibration verification (CCV) %Ds were greater than the 20% quality control limit for bromomethane and 1,4-dioxane for instrument 224 on 01/23/11 @ 09:09 affecting the samples listed.

Affected samples:

BPS1-TB01-01162012	BPS1-TT-MW308D-01162012	BPS1-TT-MW308I-01162012
BPS1-TT-MW308S-01162012	BPS1-TT-MW301D-01172012	BPS1-TT-MW305S-01172012
BPS1-TT-MW301S-01172012	BPS1-TT-MW305I-01172012	BPS1-TT-MW305D-01172012
BPS1-TT-MW304I1-01182012	BPS1-TT-MW307I-01182012	BPS1-TTMW-304I2-01182012
BPS1-TT-Dup02-01182012	BPS1-Dup01-01172012	

Action: The non-detected bromomethane results for the samples were qualified estimated, (UJ). No validation action was necessary for the non-detected 1,4-dioxane sample results as they were qualified rejected as previously describe for an RRF quality control limit non-compliances.

TO: R. SOK
SDG: 50063-12

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The CCV %Ds were greater than the 20% quality control limit for bromomethane and dichlorodifluoromethane for instrument 224 on 01/24/11 @ 08:42 affecting the samples listed.

Affected samples:

BPS1-TB02-01182012 BPS1-FB01-01182012 BPS1-RB01-01182012
BPS1-TT-MW307D-01182012 BPS1-TT-MW304S-01182012
BPS1-TT-MW307S-01182012 BPS1-TT-MW301I-01172012 BPS1-FW-MW02-01172012
BPS1-TT-MW305I-01172012RE dilution re-analysis

Action: The sample non-detected bromomethane and dichlorodifluoromethane results were qualified estimated, (UJ). The sample BPS1-TT-MW305I-01172012RE dilution re-analysis results were not qualified as only the trichloroethene results was reported from the sample re-analysis.

PCB

The samples BPS1-TT-MW301D-01172012 (25.2%) and BPS1-TT-MW305D-01172012 (35.1%) had relative percent differences (RPD) between the two analytical column Aroclor-1242 positive results greater than the 25% quality control limit. The aforementioned sample positive Aroclor-1242 results were qualified estimated, (J).

All method blanks were clean (non-detected for all Aroclors).

Additional Comments

The sample BPS1-TT-MW305I-01172012 VOC tetrachloroethene result exceeded the highest calibration standard for the sample undiluted analysis. The sample was re-analyzed at a 50X dilution. Only the tetrachloroethene result was reported from the sample BPS1-TT-MW305I-01172012 50X dilution analysis.

Samples were diluted for the Aroclor-1248 analysis as listed below.

<u>Sample</u>	<u>Dilution</u>
BPS1-TT-Dup02-01182012	2X
BPS1-TT-MW301S-01172012	10X
BPS1-TT-MW305I-01172012	2X
BPS1-TTMW-304I2-01182012	2X

The rinse blank sample BPS1-RB01-01182012 and field blank sample BPS1-FB01-01182012 had positive detections for trichloroethene. Trichloroethene was not detected in any of the trip blanks and laboratory method blanks. No validation action was taken by the data reviewer for field or rinse blank contamination.

The DB-35 column (column 1) results were reported by the laboratory for the positive Aroclor results.

The laboratory did not provide Aroclor %Ds for all of the CCVs. The data validation chemist manually calculated the CCV %Ds to verify that they were quality control compliant.

Surrogate results were diluted out in the sample BPS1-TT-MW301S-01172012 10X dilution Aroclor-1248 analysis.

Sample VOC and Aroclor analyte results were reported to the Limit of Detection (LOD).

Positive results below the Limit of Quantitation (LOQ) and above the Method Detection Limit (MDL) were qualified as estimated, (J), due to uncertainty near the detection limit.

TO: R. SOK
SDG: 50063-12

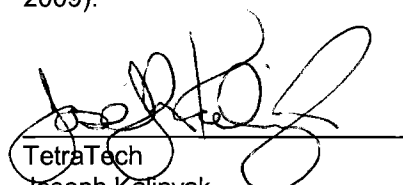
PAGE: 4

EXECUTIVE SUMMARY

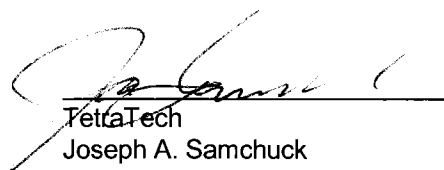
Laboratory Performance Issues: VOC sample analyte results were qualified for initial calibration RRF and CCV %D quality control limit non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Quantitation (LOQ) and above the Method Detection Limit (MDL) were qualified as estimated, (J), due to uncertainty near the detection limit. Sample positive Aroclor results were qualified due to analytical column RPD quality control limit non-compliances.

The data for these analyses were reviewed with reference to the SOP HW-24 Revision #2 - August 2008 Validating Volatile Organic Compounds by SW-846 Method 8260B, SOP HW-45 Revision 1 - October 2006 Data Validation SOP of Organic Analysis of PCBs by Gas Chromatography, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).



TetraTech
Joseph Kalinyak
Chemist/Data Validator



TetraTech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times \text{IDL}$ for inorganics and $< \text{CRQL}$ for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $> 40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $< 30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-Dup01-01172012			BPS1-FB01-01182012			BPS1-FW-MW02-01172012			BPS1-RB01-01182012		
	LAB_ID	1201218-12			1201244-02			1201218-11			1201244-03		
	SAMP_DATE	1/17/2012			1/18/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TT-MW305S-01172012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.39	J	P	0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.36	J	P	0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TB01-01162012			BPS1-TB-01102012			BPS1-TB-01112012			BPS1-TB02-01182012		
	LAB_ID	1201218-01			1201112-01			1201126-01			1201244-01		
	SAMP_DATE	1/16/2012			1/10/2012			1/11/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		2.5	J	P	
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	U		0.5	U		0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.23	J	P	0.53	J	P	0.5	U		0.5	U	
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,1-DICHLOROETHANE	0.5	U		0.22	J	P	0.5	U		0.5	U	
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2,3-TRICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2,4-TRICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U	
1,2-DICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U	
1,3-DICHLOROENZENE	0.25	U		0.25	U		0.25	U		0.25	U	
1,4-DICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U	
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U	
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U	
ACETONE	1	U		1	U		1	U		1	U	
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U	
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U	
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U	
CHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U	
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U	
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U	
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE	2.8			0.5	U		0.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U	
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U	

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW30411-01182012			BPS1-TTMW-30412-01182012			BPS1-TT-MW304S-01182012			BPS1-TT-MW305D-01172012		
	LAB_ID	1201244-06			1201244-08			1201244-05			1201218-10		
	SAMP_DATE	1/18/2012			1/18/2012			1/18/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	1.7			0.26	J	P	0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.33	J	P	
1,1-DICHLOROETHANE	1.6			0.5	U		0.5	U		0.57	J	P	
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.73	J	P	
1,2,3-TRICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.19	J	P	
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	6			2.7			0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1-TRICHLOROETHANE	0.28	J	P				0.5	U		0.5	U	
1,1,2,2-TETRACHLOROETHANE	0.5	U					0.5	U		0.5	U	
1,1,2-TRICHLOROETHANE	0.5	U					0.5	U		0.5	U	
1,1,2-TRICHLOROTRIFLUOROETHANE	1.1						0.5	U		0.5	U	
1,1-DICHLOROETHANE	2.7						0.5	U		0.5	U	
1,1-DICHLOROETHENE	1.3						0.5	U		0.5	U	
1,2,3-TRICHLOROBENZENE	0.5	U					0.5	U		0.5	U	
1,2,4-TRICHLOROBENZENE	0.5	U					0.5	U		0.5	U	
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U					0.5	U		0.5	U	
1,2-DIBROMOETHANE	0.25	U					0.25	U		0.25	U	
1,2-DICHLOROBENZENE	0.5	U					0.5	U		0.5	U	
1,2-DICHLOROETHANE	0.5	U					0.5	U		0.5	U	
1,2-DICHLOROPROPANE	0.5	U					0.5	U		0.5	U	
1,3-DICHLOROBENZENE	0.25	U					0.25	U		0.25	U	
1,4-DICHLOROBENZENE	0.5	U					0.5	U		0.5	U	
1,4-DIOXANE	25	UR	C				25	UR	C	25	UR	C
2-BUTANONE	0.5	U					0.5	U		0.5	U	
2-HEXANONE	0.5	U					0.5	U		0.5	U	
4-METHYL-2-PENTANONE	0.5	U					0.5	U		0.5	U	
ACETONE	1	U					1	U		1	U	
BENZENE	0.5	U					0.5	U		0.5	U	
BROMOCHLOROMETHANE	0.5	U					0.5	U		0.5	U	
BROMODICHLOROMETHANE	0.5	U					0.5	U		0.5	U	
BROMOFORM	0.25	U					0.25	U		0.25	U	
BROMOMETHANE	0.5	UJ	C				0.5	UJ	C	0.5	UJ	C
CARBON DISULFIDE	0.5	U					0.5	U		0.5	U	
CARBON TETRACHLORIDE	0.49	J	P				0.5	U		0.5	U	
CHLOROBENZENE	0.5	U					0.5	U		0.5	U	
CHLORODIBROMOMETHANE	0.25	U					0.25	U		0.25	U	
CHLOROETHANE	0.5	U					0.5	U		0.5	U	
CHLOROFORM	0.27	J	P				0.5	U		0.5	U	
CHLOROMETHANE	0.5	U					0.5	U		0.5	U	
CIS-1,2-DICHLOROETHENE	4.7						0.5	U		0.5	U	
CIS-1,3-DICHLOROPROPENE	0.1	U					0.1	U		0.1	U	
CYCLOHEXANE	0.5	U					0.5	U		0.5	U	

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW307I-01182012			BPS1-TT-MW307S-01182012			BPS1-TT-MW308D-01162012			BPS1-TT-MW308I-01162012		
	LAB_ID	1201244-07			1201244-09			1201218-02			1201218-03		
	SAMP_DATE	1/18/2012			1/18/2012			1/16/2012			1/16/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.23	J	P	0.24	J	P	0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
CARBON DISULFIDE	0.2	J	P	0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.19	J	P	0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW308S-01162012			BPS1-TT-MW309D-01112012			BPS1-TT-MW309I-01112012			BPS1-TT-MW309S-01102012		
	LAB_ID	1201218-04			1201126-03			1201126-02			1201112-02		
	SAMP_DATE	1/16/2012			1/11/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.45	J	P	0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.27	J	P	0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	U		0.5	U		0.5	U		
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	U		0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-Dup01-01172012			BPS1-FB01-01182012			BPS1-FW-MW02-01172012			BPS1-RB01-01182012		
	LAB_ID	1201218-12			1201244-02			1201218-11			1201244-03		
	SAMP_DATE	1/17/2012			1/18/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TT-MW305S-01172012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.56	U	A	0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.35	J	P	0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		21			0.5	U		
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.5	U		7			2.7			6.4			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TB01-01162012			BPS1-TB-01102012			BPS1-TB-01112012			BPS1-TB02-01182012		
	LAB_ID	1201218-01			1201112-01			1201126-01			1201244-01		
	SAMP_DATE	1/16/2012			1/10/2012			1/11/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	UJ	C	
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U	A	
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-Dup02-01182012			BPS1-TT-MW301D-01172012			BPS1-TT-MW301I-01172012			BPS1-TT-MW301S-01172012		
	LAB_ID	1201244-10			1201218-05			1201218-09			1201218-07		
	SAMP_DATE	1/18/2012			1/17/2012			1/17/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TTMW-304I2-01182012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	UJ	C	0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	5.5			0.26	J	P	0.5	U		0.5	U		
TOLUENE	0.1	U		0.14	J	P	0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	1.8			2.6			0.5	U		0.5	U		
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW30411-01182012			BPS1-TTMW-30412-01182012			BPS1-TT-MW304S-01182012			BPS1-TT-MW305D-01172012		
	LAB_ID	1201244-06			1201244-08			1201244-05			1201218-10		
	SAMP_DATE	1/18/2012			1/18/2012			1/18/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	UJ	C	0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	25			5.5			0.5	U		1.9			
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	4.1			1.7			0.5	U		140			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.94	J	P	
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW305I-01172012			BPS1-TT-MW305I-01172012RE1			BPS1-TT-MW305S-01172012			BPS1-TT-MW307D-01182012		
	LAB_ID	1201218-08			1201218-08RE1			1201218-06			1201244-04		
	SAMP_DATE	1/17/2012			1/17/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U					0.5	U		0.5	UJ	C	
ETHYLBENZENE	0.25	U					0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U					0.5	U		0.5	U		
M+P-XYLENES	0.5	U					0.5	U		0.5	U		
METHYL ACETATE	0.5	U					0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U					0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U					0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U					0.5	U		0.5	U		
O-XYLENE	0.25	U					0.25	U		0.25	U		
STYRENE	0.1	U					0.1	U		0.1	U		
TETRACHLOROETHENE	3.3						0.5	U		0.5	U		
TOLUENE	0.1	U					0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U					0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U					0.25	U		0.25	U		
TRICHLOROETHENE				3900			0.5	U		0.5	U		
TRICHLOROFUOROMETHANE	0.91	J	P				0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U					0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW307I-01182012			BPS1-TT-MW307S-01182012			BPS1-TT-MW308D-01162012			BPS1-TT-MW308I-01162012		
	LAB_ID	1201244-07			1201244-09			1201218-02			1201218-03		
	SAMP_DATE	1/18/2012			1/18/2012			1/16/2012			1/16/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	UJ	C	0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U	A	0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	1.1			1.3			0.7	J	P	0.5	U		
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	1.8			0.57	J	P	1.6			0.5	U		
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW308S-01162012			BPS1-TT-MW309D-01112012			BPS1-TT-MW309I-01112012			BPS1-TT-MW309S-01102012		
	LAB_ID	1201218-04			1201126-03			1201126-02			1201112-02		
	SAMP_DATE	1/16/2012			1/11/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		1.1			0.5	U		0.5	U		
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.71	J	P	1.8			0.5	U		0.61	J	P	
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-Dup01-01172012			BPS1-FB01-01182012			BPS1-FW-MW02-01172012			BPS1-RB01-01182012		
	LAB_ID	1201218-12			1201244-02			1201218-11			1201244-03		
	SAMP_DATE	1/17/2012			1/18/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TT-MW305S-01172012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1221	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1232	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1242	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1248	0.08	U		0.08	U		0.3			0.08	U		
AROCLOR-1254	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1260	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1262	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1268	0.08	U		0.08	U		0.08	U		0.08	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-Dup02-01182012			BPS1-TT-MW301D-01172012			BPS1-TT-MW301I-01172012			BPS1-TT-MW301S-01172012		
	LAB_ID	1201244-10			1201218-05			1201218-09			1201218-07		
	SAMP_DATE	1/18/2012			1/17/2012			1/17/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TTMW-304I2-01182012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1221	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1232	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1242	0.08	U		0.75	J	U	0.79			0.08	U		
AROCLOR-1248	1.6			0.08	U		0.08	U		10			
AROCLOR-1254	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1260	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1262	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1268	0.08	U		0.08	U		0.08	U		0.08	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW30411-01182012			BPS1-TTMW-30412-01182012			BPS1-TT-MW304S-01182012			BPS1-TT-MW305D-01172012		
	LAB_ID	1201244-06			1201244-08			1201244-05			1201218-10		
	SAMP_DATE	1/18/2012			1/18/2012			1/18/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1221	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1232	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1242	0.08	U		0.08	U		0.08	U		0.16	J	PU	
AROCLOR-1248	0.97			1.5			0.08	U		0.08	U		
AROCLOR-1254	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1260	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1262	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1268	0.08	U		0.08	U		0.08	U		0.08	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW305I-01172012			BPS1-TT-MW305S-01172012			BPS1-TT-MW307D-01182012			BPS1-TT-MW307I-01182012		
	LAB_ID	1201218-08			1201218-06			1201244-04			1201244-07		
	SAMP_DATE	1/17/2012			1/17/2012			1/18/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1221	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1232	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1242	0.08	U		0.08	U		0.56			0.08	U		
AROCLOR-1248	1.3			0.08	U		0.08	U		0.84			
AROCLOR-1254	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1260	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1262	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1268	0.08	U		0.08	U		0.08	U		0.08	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW307S-01182012			BPS1-TT-MW308D-01162012			BPS1-TT-MW308I-01162012			BPS1-TT-MW308S-01162012		
	LAB_ID	1201244-09			1201218-02			1201218-03			1201218-04		
	SAMP_DATE	1/18/2012			1/16/2012			1/16/2012			1/16/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1221	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1232	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1242	0.08	U		0.073	J	P	0.52			0.08	U		
AROCLOR-1248	0.08	U		0.08	U		0.08	U		0.2			
AROCLOR-1254	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1260	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1262	0.08	U		0.08	U		0.08	U		0.08	U		
AROCLOR-1268	0.08	U		0.08	U		0.08	U		0.08	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW309D-01112012			BPS1-TT-MW309I-01112012			BPS1-TT-MW309S-01102012		
	LAB_ID	1201126-03			1201126-02			1201112-02		
	SAMP_DATE	1/11/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.085	U		0.08	U		0.086	U		
AROCLOR-1221	0.085	U		0.08	U		0.086	U		
AROCLOR-1232	0.085	U		0.08	U		0.086	U		
AROCLOR-1242	0.085	U		0.43			0.086	U		
AROCLOR-1248	0.085	U		0.08	U		1			
AROCLOR-1254	0.085	U		0.08	U		0.086	U		
AROCLOR-1260	0.085	U		0.08	U		0.086	U		
AROCLOR-1262	0.085	U		0.08	U		0.086	U		
AROCLOR-1268	0.085	U		0.08	U		0.086	U		



Tetra Tech

INTERNAL CORRESPONDENCE

TO: R. SOK **DATE:** March 28, 2012
FROM: MEGAN CARSON **COPIES:** DV FILE
SUBJECT: INORGANIC DATA VALIDATION- TOTAL AND FILTERED IRON AND CHROMIUM,
AND HEXAVALENT CHROMIUM
NWIRP BETHPAGE, CTO WE44
SDG 50063-12

SAMPLES: 23/Water/
BPS1-Dup01-01172012 BPS1-FB01-01182012
BPS1-FW-MW02-01172012 BPS1-RB01-01182012
BPS1-TT-Dup02-01182012 BPS1-TT-MW301D-01172012
BPS1-TT-MW301I-01172012 BPS1-TT-MW301S-01172012
BPS1-TT-MW304I1-01182012 BPS1-TT-MW304I2-01182012
BPS1-TT-MW304S-01182012 BPS1-TT-MW305D-01172012
BPS1-TT-MW305I-01172012 BPS1-TT-MW305S-01172012
BPS1-TT-MW307D-01182012 BPS1-TT-MW307I-01182012
BPS1-TT-MW307S-01182012 BPS1-TT-MW308D-01162012
BPS1-TT-MW308I-01162012 BPS1-TT-MW308S-01162012
BPS1-TT-MW309D-01112012 BPS1-TT-MW309I-01112012
BPS1-TT-MW309S-01102012

Overview

The sample set for NWIRP Bethpage, SDG 50063-12, consists of twenty one (21) aqueous samples, one field blank, and one rinsate blank. This SDG contained two field duplicate pairs: BPS1-Dup01-01172012/ BPS1-TT-MW305S-01172012 and BPS1-TT-Dup02-01182012/ BPS1-TT-MW304I2-01182012.

All samples were analyzed for total chromium and iron. Samples BPS1-FB01-01182012, BPS1-RB01-01182012, BPS1-TT-MW309D-01112012-F, and BPS1-TT-MW309S-01102012-F were analyzed for filtered chromium and iron. Samples BPS1-FB01-01182012, BPS1-RB01-01182012, BPS1-TT-Dup02-01182012, BPS1-TT-MW301I-01172012, BPS1-TT-MW304I1-01182012, BPS1-TT-MW304I2-01182012, BPS1-TT-MW305D-01172012, BPS1-TT-MW307I-01182012, BPS1-TT-MW309D-01112012, BPS1-TT-MW309I-01112012, and BPS1-TT-MW309S-01102012 were analyzed for hexavalent chromium. The samples were collected by Tetra Tech on January 10th, 11th, 16th, 17th, and 18th, 2012 and analyzed by Trimatrix Laboratories. Metals analyses were performed using SW-846 Methods 6010C and 6020A. Hexavalent chromium analysis was performed using SW-846 Method 7196.

These data were evaluated based on the following parameters:

- * • Data Completeness
- * • Holding Times
- Initial and Continuing Calibration Verification Results
- * • Laboratory Method / Preparation Blank Analyses
- * • ICP Interference Results
- * • Matrix Spike / Matrix Spike Duplicate Recoveries
- * • Field Duplicate Precision

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- * • Laboratory Duplicate Results
- * • Laboratory Control Standard Results
- * • ICP Serial Dilution Results
- * • Detection Limits
- * • Analyte Quantitation

Metals:

All sample results were within quality control limits.

Hexavalent Chromium:

The CRDL standard analyzed on 1/11/12 had a percent recovery > 150% for hexavalent chromium. Sample BPS1-TT-MW309S-01102012 was affected. The positive result was qualified as estimated (J).

Notes

Positive results greater than the detection limit (DL) but less than the limit of quantitation (LOQ) were qualified as estimated (J).

Sample ID BPS1-TT-MW304I2-01182012 was incorrectly labeled on the Form 1s and the EDD. The ID was changed to match the chain of custody.

The following contaminants were detected in calibration blanks at the following maximum concentrations:

<u>Analyte</u>	<u>Maximum Concentration</u>	<u>Action Level</u>
Hexavalent chromium ⁽¹⁾	0.0005 mg/L	2.5 ug/L
Hexavalent chromium ⁽²⁾	0.0036 mg/L	18 ug/L

(1) Maximum concentration found in a calibration blank affecting samples analyzed on 1/11/12.

(2) Maximum concentration found in a calibration blank affecting samples analyzed on 1/12/12.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. No validation action was warranted as sample results were either > action level or non-detected.

The total chromium concentration in sample BPS1-TT-Dup02-01182012 was slightly less than the hexavalent chromium concentration. No action was taken.

Executive Summary

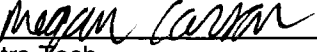
Laboratory Performance: CRDL standard non-compliances resulted in the qualification of sample results. Hexavalent chromium blank contamination did not impact sample results.

Other Factors Affecting Data Quality: None.

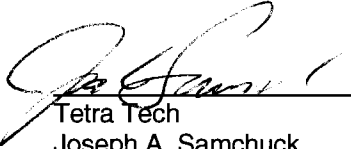
The data for these analyses were reviewed with reference to the U.S. EPA Region II "Validation of metals for the Contract Laboratory Program based on SOW ILMO5.3 (SOP Revision 13)", September 2006 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", April 2009.

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The text of this report has been formulated to address only those problem areas affecting data quality.



Tetra Tech
Megan Carson
Chemist/Data Validator



Tetra Tech
Joseph A. Samchuck
Quality Assurance Officer

Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Region II Worksheets
4. Appendix D - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- Q = etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-Dup01-01172012			BPS1-FB01-01182012			BPS1-FW-MW02-01172012			BPS1-RB01-01182012		
	LAB_ID	1201218-12			1201244-02			1201218-11			1201244-03		
	SAMP_DATE	1/17/2012			1/18/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TT-MW305S-01172012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	2.6			0.5	U		8.5			0.5	U		
IRON	650			8.2	J	P	330			29			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-Dup02-01182012			BPS1-TT-MW301D-01172012			BPS1-TT-MW301I-01172012			BPS1-TT-MW301S-01172012		
	LAB_ID	1201244-10			1201218-05			1201218-09			1201218-07		
	SAMP_DATE	1/18/2012			1/17/2012			1/17/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-TT-MW304I2-01182012											
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	170			92			7			2.5			
IRON	10	J	P	14	J	P	17	J	P	56			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW304I1-01182012			BPS1-TT-MW304I2-01182012			BPS1-TT-MW304S-01182012			BPS1-TT-MW305D-01172012		
	LAB_ID	1201244-06			1201244-08			1201244-05			1201218-10		
	SAMP_DATE	1/18/2012			1/18/2012			1/18/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	38			200			1.4			22			
IRON	400			16	J	P	58			1100			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW305I-01172012			BPS1-TT-MW305S-01172012			BPS1-TT-MW307D-01182012			BPS1-TT-MW307I-01182012		
	LAB_ID	1201218-08			1201218-06			1201244-04			1201244-07		
	SAMP_DATE	1/17/2012			1/17/2012			1/18/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	3.5			2.4			13			12			
IRON	1100			560			460			460			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW307S-01182012			BPS1-TT-MW308D-01162012			BPS1-TT-MW308I-01162012			BPS1-TT-MW308S-01162012		
	LAB_ID	1201244-09			1201218-02			1201218-03			1201218-04		
	SAMP_DATE	1/18/2012			1/16/2012			1/16/2012			1/16/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	4			17			10			10			
IRON	530			240			240			150			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW309D-01112012			BPS1-TT-MW309I-01112012			BPS1-TT-MW309S-01102012		
	LAB_ID	1201126-03			1201126-02			1201112-02		
	SAMP_DATE	1/11/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	7.5			49			18			
IRON	2400			130			2100			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: MF MEDIA: WATER	NSAMPLE	BPS1-FB01-01182012			BPS1-RB01-01182012			BPS1-TT-MW309D-01112012-F			BPS1-TT-MW309S-01102012-F		
	LAB_ID	1201244-02			1201244-03			1201126-04			1201112-03		
	SAMP_DATE	1/18/2012			1/18/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CHROMIUM	0.5	U		0.5	U		0.56	J	P	13			
IRON	10	U		10	U		31			92			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPS1-FB01-01182012			BPS1-RB01-01182012			BPS1-TT-Dup02-01182012			BPS1-TT-MW3011-01172012		
	LAB_ID	1201244-02			1201244-03			1201244-10			1201218-09		
	SAMP_DATE	1/18/2012			1/18/2012			1/18/2012			1/17/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF							BPS1-TT-MW30412-01182012					
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM	1	U		0.4	J	P	182			5.3			

PROJ_NO: 02230 SDG: 50063-12 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPS1-TT-MW30411-01182012			BPS1-TT-MW30412-01182012			BPS1-TT-MW305D-01172012			BPS1-TT-MW307I-01182012		
	LAB_ID	1201244-06			1201244-08			1201218-10			1201244-07		
	SAMP_DATE	1/18/2012			1/18/2012			1/17/2012			1/18/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM	35.5			181			1	U		1	U		

PROJ_NO: 02230 SDG: 50063-12 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPS1-TT-MW309D-01112012			BPS1-TT-MW309I-01112012			BPS1-TT-MW309S-01102012		
	LAB_ID	1201126-03			1201126-02			1201112-02		
	SAMP_DATE	1/11/2012			1/11/2012			1/10/2012		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM	1	U		47.7			8.9	J	C	



Tetra Tech INC

INTERNAL CORRESPONDENCE

TO: R. SOK **DATE: MARCH 28, 2012**

FROM: JOSEPH KALINYAK **COPIES: DV FILE**

**SUBJECT: ORGANIC DATA VALIDATION – VOC, PCB
NWIRP BETHPAGE, CTO WE44
SAMPLE DELIVERY GROUP SDG 50063-13**

SAMPLES: 22 / Aqueous / VOC

BPS1-Dup03-01192012	BPS1-Dup04-01232012	BPS1-FB02-01232012
BPS1-FW-MW01-01192012	BPS1-FW-MW03-01192012	BPS1-HN-MW29I-01192012
BPS1-RB02-01232012	BPS1-TB03-01192012	BPS1-TB04-01202012
BPS1-TB05-01232012	BPS1-TT-MW302D-01202012	BPS1-TT-MW302I1-01202012
BPS1-TT-MW302I2-01202012	BPS1-TT-MW302S-01202012	BPS1-TT-MW303D-01192012
BPS1-TT-MW303I1-01192012	BPS1-TT-MW303I2-01192012	BPS1-TT-MW303S-01232012
BPS1-TT-MW304D-01192012	BPS1-TT-MW306D-01232012	BPS1-TT-MW306I-01232012
BPS1-TT-MW306S-01232012		

19 / Aqueous / PCB

BPS1-Dup03-01192012	BPS1-Dup04-01232012	BPS1-FB02-01232012
BPS1-FW-MW01-01192012	BPS1-FW-MW03-01192012	BPS1-HN-MW29I-01192012
BPS1-RB02-01232012	BPS1-TT-MW302D-01202012	BPS1-TT-MW302I1-01202012
BPS1-TT-MW302I2-01202012	BPS1-TT-MW302S-01202012	BPS1-TT-MW303D-01192012
BPS1-TT-MW303I1-01192012	BPS1-TT-MW303I2-01192012	BPS1-TT-MW303S-01232012
BPS1-TT-MW304D-01192012	BPS1-TT-MW306D-01232012	BPS1-TT-MW306I-01232012
BPS1-TT-MW306S-01232012		

Overview

The sample set for NWIRP Bethpage, CTO WE44, SDG 50063-13 consisted of twenty-two (22) aqueous samples, including one (1) aqueous rinse blank sample, one (1) aqueous field blank sample, and three (3) aqueous trip blank samples. All of the aqueous samples were analyzed for volatile organic compounds (VOC) as listed above. Nineteen (19) of the aqueous samples were analyzed for polychlorinated biphenyls (PCB) as listed above. Two field duplicate sample pairs were included with this sample delivery group (SDG): BPS1-Dup03-01192012 / BPS1-HN-MW29I-01192012 and BPS1-Dup04-01232012 / BPS1-TT-MW303S-01232012.

The samples were collected by Tetra Tech on January 19, 20, and 23, 2012 and analyzed by Trimatrix Laboratories Inc. All analyses were conducted in accordance with EPA Methods SW-846 8260B for VOC and 8082 for PCB, analytical and reporting protocols.

The data contained in this SDG were validated with regard to the following parameters:

- * • Data completeness
- * • Hold times
- * • GC/MS System Tuning and Performance
 - Initial/continuing Calibrations
 - Method Blank Results

- * • Laboratory Control Sample Recovery
- Matrix Spike/Matrix Spike Duplicate Recoveries
- Surrogate Spike Recoveries
- * • Internal Standard Recoveries
- * • Field Duplicate Precision
- * • Compound Identification
- * • Compound Quantitation
- * • Detection Limits

The symbol (*) indicates that all quality control criteria were met for this parameter. Qualified analytical results are presented in Appendix A, results as reported by the laboratory are presented in Appendix B, Region II data validation forms are presented in Appendix C, and documentation supporting these findings is presented in Appendix D.

VOC

The following VOC contaminant was detected in the method blank at the following maximum concentrations.

<u>Analyte</u>	<u>Maximum Conc. µg/L</u>	<u>Action Level µg/L</u>
Methyl acetate ⁽¹⁾	0.32	1.60

- (1) Method blank for batch 1201603 affecting samples BPS1-TB03-01192012, BPS1-HN-MW29I-01192012, BPS1-FW-MW01-01192012, BPS1-FW-MW03-01192012, BPS1-TT-MW304D-01192012, BPS1-TT-MW303I2-01192012, BPS1-TT-MW303I1-01192012, BPS1-TT-MW303D-01192012, and BPS1-Dup03-01192012.

An action level of five times the maximum level for methyl acetate has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Acetone was detected in the field blank sample and all three (3) trip blank samples. No validation action was necessary as all samples had non-detected results for methyl acetate. As none of the samples had positive acetone detections, no validation action for field blank and trip blank acetone contamination was necessary.

The initial calibration average relative response factor (RRF) was less than the 0.05 quality control limit for 1,4-dioxane for instrument 224 on 01/17/12 and on all continuing calibration verifications (CCV).

Affected samples: All samples

Action: The non-detected 1,4-dioxane results for all samples were qualified rejected, (UR).

The continuing calibration verification (CCV) %Ds were greater than the 20% quality control limit for bromomethane and dichlorodifluoromethane for instrument 224 on 01/24/12 @ 08:42 affecting the samples listed.

Affected samples:

BPS1-TB03-01192012 BPS1-HN-MW29I-01192012 BPS1-FW-MW01-01192012
BPS1-FW-MW03-01192012 BPS1-TT-MW304D-01192012 BPS1-TT-MW303I2-01192012
BPS1-TT-MW303I1-01192012 BPS1-TT-MW303D-01192012 BPS1-Dup03-01192012

Action: The sample non-detected bromomethane and dichlorodifluoromethane results were qualified estimated, (UJ).

The CCV %Ds were greater than the 20% quality control limit for cis-1,3-dichloropropene and methyl cyclohexane for instrument 224 on 01/26/11 @ 08:46 affecting the samples listed.

Affected samples:

BPS1-TB04-01202012 BPS1-TB05-01232012 BPS1-RB02-01232012
BPS1-FB02-01232012 BPS1-TT-MW302S-01202012 BPS1-TT-MW302D-01202012
BPS1-TT-MW302I1-01202012 BPS1-TT-MW302I2-01202012
BPS1-TT-MW306D-01232012 BPS1-TT-MW303S-01232012
BPS1-TT-MW306I-01232012 BPS1-TT-MW306S-01232012
BPS1-Dup04-01232012 BPS1-FW-MW01-01192012
BPS1-FW-MW03-01192012 BPS1-HN-MW29I-01192012

Action: The non-detected cis-1,3-dichloropropene and methyl cyclohexane results for the samples were qualified estimated, (UJ).

PCB

The matrix spike (MS) and MS duplicate (MSD) percent recoveries (%Rs) were greater than the quality control limit for Aroclor-1016 both columns for spiked sample BPS1-TT-MW306I-01232012.

Action: The non-detected Aroclor-1016 result for the sample BPS1-TT-MW306I-01232012 was qualified estimated, (UJ).

The samples BPS1-TT-MW303D-01192012 (26.9%) and BPS1-TT-MW306D-01232012 (31.1%) had relative percent differences (RPD) between the two analytical column Aroclor-1242 positive results greater than the 25% quality control limit. The sample positive Aroclor-1242 results were qualified estimated, (J).

All method blanks were clean (non-detected for all Aroclors).

Additional Comments

The sample BPS1-FW-MW01-01192012 VOC tetrachloroethene result exceeded the highest calibration standard for the sample undiluted analysis. The sample was re-analyzed at a 2X dilution. Only the tetrachloroethene result was reported from the sample BPS1-FW-MW01-01192012 2X dilution analysis.

The Aroclor surrogate %R was greater than the quality control limit for tetrachloro-m-xylene (TCX) for the DB-XLB column for sample BPS1-FB02-01232012. No validation action was necessary as the sample had non-detected results for all Aroclors and the alternate analytical column was quality control limit compliant.

Samples were diluted for the Aroclor-1248 analysis as listed below.

<u>Sample</u>	<u>Dilution</u>
BPS1-FW-MW03-01192012	2X
BPS1-TT-MW302I2-01202012	2X
BPS1-TT-MW303D-01192012	2X
BPS1-TT-MW303I1-01192012	3X
BPS1-TT-MW302I2-01202012	2X
BPS1-TT-MW304D-01192012	4X
BPS1-TT-MW306I-01232012	2X

The rinse blank sample BPS1-RB02-01232012 had a positive detection for trichloroethene. Trichloroethene was not detected in any of the trip blanks and laboratory method blanks. No validation action was taken by the data reviewer for rinse blank contamination.

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The field blank sample BPS1-FB02-01232012 had positive detections for acetone, bromoform, chlorodibromomethane, and toluene. Detections of trihalomethanes are indicative of potable water. Analytes detected in the field blank were not used to establish blank action levels. No blank actions were taken.

Sample VOC and Aroclor analyte results were reported to the Limit of Detection (LOD).

Positive results below the Limit of Quantitation (LOQ) and above the Method Detection Limit (MDL) were qualified as estimated, (J), due to uncertainty near the detection limit.

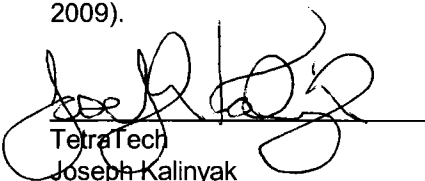
The DB-35 column (column 1) results were reported by the laboratory for the positive Aroclor results. The laboratory did not provide Aroclor %Ds for all of the CCVs. The data validation chemist manually calculated the CCV %Ds to verify that they were quality control compliant.

EXECUTIVE SUMMARY

Laboratory Performance Issues: VOC sample analyte results were qualified for initial calibration RRF and CCV %D quality control limit non-compliances.

Other Factors Affecting Data Quality: Positive results below the Limit of Quantitation (LOQ) and above the Method Detection Limit (MDL) were qualified as estimated, (J), due to uncertainty near the detection limit.

The data for these analyses were reviewed with reference to the SOP HW-24 Revision #2 - August 2008 Validating Volatile Organic Compounds by SW-846 Method 8260B, SOP HW-45 Revision 1 - October 2006 Data Validation SOP of Organic Analysis of PCBs by Gas Chromatography, and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).



Tetra Tech
Joseph Kalinyak
Chemist/Data Validator



Tetra Tech
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:

- Appendix A - Qualified Analytical Results
- Appendix B - Results as Reported by the Laboratory
- Appendix C - Region II Data Validation Forms
- Appendix D - Support Documentation

Appendix A

Qualified Analytical Results

Value Qualifier Key (Val Qual)

J – The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ – The result is an estimated non-detected quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

U - Value is a non-detect as reported by the laboratory.

UR – Non-detected result is considered rejected, (UR), as a result of technical non-compliances.

DATA QUALIFICATION CODE (QUAL CODE)

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
- Q = Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-Dup03-01192012			BPS1-Dup04-01232012			BPS1-FB02-01232012			BPS1-FW-MW01-01192012		
	LAB_ID	1201254-09			1201310-09			1201310-08			1201254-03		
	SAMP_DATE	1/19/2012			1/23/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-HN-MW29I-01192012			BPS1-TT-MW303S-01232012								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		8.3			
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		1.2			
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		3.1			
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		16			1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		4.4			0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	U		0.5	U		0.5	U		
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		3.1			0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		70			
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	UJ	C	0.1	UJ	C	0.1	UJ	C	
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-FW-MW03-01192012			BPS1-HN-MW29I-01192012			BPS1-RB02-01232012			BPS1-TB03-01192012		
	LAB_ID	1201254-04			1201254-02			1201310-06			1201254-01		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.25	J	P	0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		3	J	P	
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	U		0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.49	J	P	0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	UJ	C	0.1	UJ	C	0.1	UJ	C	0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TB04-01202012			BPS1-TB05-01232012			BPS1-TT-MW302D-01202012			BPS1-TT-MW302I1-01202012		
	LAB_ID	1201287-01			1201310-01			1201287-03			1201287-04		
	SAMP_DATE	1/20/2012			1/23/2012			1/20/2012			1/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.23	J	P	0.35	J	P	
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.45	J	P	
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.62	J	P	0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1.4	J	P	2.8	J	P	1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	UJ	C	0.1	UJ	C	0.1	UJ	C	0.1	UJ	C	
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW302I2-01202012			BPS1-TT-MW302S-01202012			BPS1-TT-MW303D-01192012			BPS1-TT-MW303I1-01192012		
	LAB_ID	1201287-05			1201287-02			1201254-08			1201254-07		
	SAMP_DATE	1/20/2012			1/20/2012			1/19/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		1.6			
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		1.6			
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	U		0.5	U		0.5	UJ	C	0.5	UJ	C	
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		2			
CIS-1,3-DICHLOROPROPENE	0.1	UJ	C	0.1	UJ	C	0.1	U		0.1	U		
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW303I2-01192012			BPS1-TT-MW303S-01232012			BPS1-TT-MW304D-01192012			BPS1-TT-MW306D-01232012		
	LAB_ID	1201254-06			1201310-03			1201254-05			1201310-02		
	SAMP_DATE	1/19/2012			1/23/2012			1/19/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		0.5	U		0.5	U		
ACETONE	1	U		1	U		1	U		1	U		
BENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		0.25	U		0.25	U		
BROMOMETHANE	0.5	UJ	C	0.5	U		0.5	UJ	C	0.5	U		
CARBON DISULFIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	U		0.1	UJ	C	0.1	U		0.1	UJ	C	
CYCLOHEXANE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW306I-01232012			BPS1-TT-MW306S-01232012		
	LAB_ID	1201310-04			1201310-07		
	SAMP_DATE	1/23/2012			1/23/2012		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
1,1,1-TRICHLOROETHANE	0.5	U		0.5	U		
1,1,2,2-TETRACHLOROETHANE	0.5	U		0.5	U		
1,1,2-TRICHLOROETHANE	0.5	U		0.5	U		
1,1,2-TRICHLOROTRIFLUOROETHANE	0.5	U		0.5	U		
1,1-DICHLOROETHANE	0.5	U		0.5	U		
1,1-DICHLOROETHENE	0.5	U		0.5	U		
1,2,3-TRICHLOROBENZENE	0.5	U		0.5	U		
1,2,4-TRICHLOROBENZENE	0.5	U		0.5	U		
1,2-DIBROMO-3-CHLOROPROPANE	0.5	U		0.5	U		
1,2-DIBROMOETHANE	0.25	U		0.25	U		
1,2-DICHLOROBENZENE	0.5	U		0.5	U		
1,2-DICHLOROETHANE	0.5	U		0.5	U		
1,2-DICHLOROPROPANE	0.5	U		0.5	U		
1,3-DICHLOROBENZENE	0.25	U		0.25	U		
1,4-DICHLOROBENZENE	0.5	U		0.5	U		
1,4-DIOXANE	25	UR	C	25	UR	C	
2-BUTANONE	0.5	U		0.5	U		
2-HEXANONE	0.5	U		0.5	U		
4-METHYL-2-PENTANONE	0.5	U		0.5	U		
ACETONE	1	U		1	U		
BENZENE	0.5	U		0.5	U		
BROMOCHLOROMETHANE	0.5	U		0.5	U		
BROMODICHLOROMETHANE	0.5	U		0.5	U		
BROMOFORM	0.25	U		0.25	U		
BROMOMETHANE	0.5	U		0.5	U		
CARBON DISULFIDE	0.5	U		0.5	U		
CARBON TETRACHLORIDE	0.5	U		0.5	U		
CHLOROBENZENE	0.5	U		0.5	U		
CHLORODIBROMOMETHANE	0.25	U		0.25	U		
CHLOROETHANE	0.5	U		0.5	U		
CHLOROFORM	0.5	U		0.5	U		
CHLOROMETHANE	0.5	U		0.5	U		
CIS-1,2-DICHLOROETHENE	0.5	U		0.5	U		
CIS-1,3-DICHLOROPROPENE	0.1	UJ	C	0.1	UJ	C	
CYCLOHEXANE	0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-Dup03-01192012			BPS1-Dup04-01232012			BPS1-FB02-01232012			BPS1-FW-MW01-01192012		
	LAB_ID	1201254-09			1201310-09			1201310-08			1201254-03		
	SAMP_DATE	1/19/2012			1/23/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-HN-MW29I-01192012			BPS1-TT-MW303S-01232012								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	UJ	C	0.5	U		0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.46	J	P	1.8			0.5	U		200			
TOLUENE	0.1	U		0.1	U		0.51	J	P	0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	J	P	
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.5	U		2.7			0.5	U		21			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-FW-MW03-01192012			BPS1-HN-MW29I-01192012			BPS1-RB02-01232012			BPS1-TB03-01192012		
	LAB_ID	1201254-04			1201254-02			1201310-06			1201254-01		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	UJ	C	0.5	UJ	C	0.5	U		0.5	UJ	C	
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	68			0.49	J	P	0.5	U		0.5	U		
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	3.7			0.5	U		6.5			0.5	U		
TRICHLOROFUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TB04-01202012			BPS1-TB05-01232012			BPS1-TT-MW302D-01202012			BPS1-TT-MW302I1-01202012		
	LAB_ID	1201287-01			1201310-01			1201287-03			1201287-04		
	SAMP_DATE	1/20/2012			1/23/2012			1/20/2012			1/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	0.5	UJ	C	
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		0.33	J	P	0.29	J	P	
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	0.5	U		0.5	U		3.9			1.7			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW302I2-01202012			BPS1-TT-MW302S-01202012			BPS1-TT-MW303D-01192012			BPS1-TT-MW303I1-01192012		
	LAB_ID	1201287-05			1201287-02			1201254-08			1201254-07		
	SAMP_DATE	1/20/2012			1/20/2012			1/19/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		0.5	UJ	C	0.5	UJ	C	
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	UJ	C	0.5	UJ	C	0.5	U		0.5	U		
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.5	U		0.5	U		83			
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	1.8			0.5	U		0.51	J	P	18			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW303I2-01192012			BPS1-TT-MW303S-01232012			BPS1-TT-MW304D-01192012			BPS1-TT-MW306D-01232012		
	LAB_ID	1201254-06			1201310-03			1201254-05			1201310-02		
	SAMP_DATE	1/19/2012			1/23/2012			1/19/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	UJ	C	0.5	U		0.5	UJ	C	0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	U		0.5	UJ	C	0.5	U		0.5	UJ	C	
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		0.1	U		0.1	U		
TETRACHLOROETHENE	0.94	J	P	1.9			0.5	U		0.44	J	P	
TOLUENE	0.1	U		0.1	U		0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		0.25	U		0.25	U		
TRICHLOROETHENE	1.6			2.7			0.5	U		2.4			
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: OV MEDIA: WATER	NSAMPLE	BPS1-TT-MW306I-01232012			BPS1-TT-MW306S-01232012		
	LAB_ID	1201310-04			1201310-07		
	SAMP_DATE	1/23/2012			1/23/2012		
	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
DICHLORODIFLUOROMETHANE	0.5	U		0.5	U		
ETHYLBENZENE	0.25	U		0.25	U		
ISOPROPYLBENZENE	0.5	U		0.5	U		
M+P-XYLENES	0.5	U		0.5	U		
METHYL ACETATE	0.5	U		0.5	U		
METHYL CYCLOHEXANE	0.5	UJ	C	0.5	UJ	C	
METHYL TERT-BUTYL ETHER	0.5	U		0.5	U		
METHYLENE CHLORIDE	0.5	U		0.5	U		
O-XYLENE	0.25	U		0.25	U		
STYRENE	0.1	U		0.1	U		
TETRACHLOROETHENE	0.5	U		0.4	J	P	
TOLUENE	0.1	U		0.1	U		
TRANS-1,2-DICHLOROETHENE	0.5	U		0.5	U		
TRANS-1,3-DICHLOROPROPENE	0.25	U		0.25	U		
TRICHLOROETHENE	0.54	J	P	0.5	U		
TRICHLOROFLUOROMETHANE	0.5	U		0.5	U		
VINYL CHLORIDE	0.5	U		0.5	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-Dup03-01192012			BPS1-Dup03-01192012RE1			BPS1-Dup04-01232012			BPS1-Dup04-01232012RE1		
	LAB_ID	1201254-09			1201254-09RE1			1201310-09			1201310-09RE1		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-HN-MW29I-01192012			BPS1-HN-MW29I-01192012			BPS1-TT-MW303S-01232012			BPS1-TT-MW303S-01232012		
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U					0.08	U					
AROCLOR-1248				0.66						0.2			
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-FB02-01232012			BPS1-FW-MW01-01192012			BPS1-FW-MW01-01192012RE1			BPS1-FW-MW03-01192012		
	LAB_ID	1201310-08			1201254-03			1201254-03RE1			1201254-04		
	SAMP_DATE	1/23/2012			1/19/2012			1/19/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U		0.08	U					0.08	U		
AROCLOR-1221	0.08	U		0.08	U					0.08	U		
AROCLOR-1232	0.08	U		0.08	U					0.08	U		
AROCLOR-1242	0.08	U		0.08	U					0.08	U		
AROCLOR-1248	0.08	U					0.46						
AROCLOR-1254	0.08	U		0.08	U					0.08	U		
AROCLOR-1260	0.08	U		0.08	U					0.08	U		
AROCLOR-1262	0.08	U		0.08	U					0.08	U		
AROCLOR-1268	0.08	U		0.08	U					0.08	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-FW-MW03-01192012RE1			BPS1-HN-MW29I-01192012			BPS1-HN-MW29I-01192012RE1			BPS1-RB02-01232012		
	LAB_ID	1201254-04RE1			1201254-02			1201254-02RE1			1201310-06		
	SAMP_DATE	1/19/2012			1/19/2012			1/19/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016				0.08	U					0.094	U		
AROCLOR-1221				0.08	U					0.094	U		
AROCLOR-1232				0.08	U					0.094	U		
AROCLOR-1242				0.08	U					0.094	U		
AROCLOR-1248		1.9						0.63		0.094	U		
AROCLOR-1254				0.08	U					0.094	U		
AROCLOR-1260				0.08	U					0.094	U		
AROCLOR-1262				0.08	U					0.094	U		
AROCLOR-1268				0.08	U					0.094	U		

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW302D-01202012			BPS1-TT-MW302D-01202012RE1			BPS1-TT-MW302I1-01202012			BPS1-TT-MW302I1-01202012RE1		
	LAB_ID	1201287-03			1201287-03RE1			1201287-04			1201287-04RE1		
	SAMP_DATE	1/20/2012			1/20/2012			1/20/2012			1/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U					0.08	U					
AROCLOR-1248				0.85						1.2			
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW302I2-01202012			BPS1-TT-MW302I2-01202012RE1			BPS1-TT-MW302S-01202012			BPS1-TT-MW302S-01202012RE1		
	LAB_ID	1201287-05			1201287-05RE1			1201287-02			1201287-02RE1		
	SAMP_DATE	1/20/2012			1/20/2012			1/20/2012			1/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U					0.08	U					
AROCLOR-1248				1.9						0.43			
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW303D-01192012			BPS1-TT-MW303D-01192012RE1			BPS1-TT-MW303I1-01192012			BPS1-TT-MW303I1-01192012RE1		
	LAB_ID	1201254-08			1201254-08RE1			1201254-07			1201254-07RE1		
	SAMP_DATE	1/19/2012			1/19/2012			1/19/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.085	U					0.08	U					
AROCLOR-1221	0.085	U					0.08	U					
AROCLOR-1232	0.085	U					0.08	U					
AROCLOR-1242				1.6	J	U				3.9			
AROCLOR-1248	0.085	U					0.08	U					
AROCLOR-1254	0.085	U					0.08	U					
AROCLOR-1260	0.085	U					0.08	U					
AROCLOR-1262	0.085	U					0.08	U					
AROCLOR-1268	0.085	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW303I2-01192012			BPS1-TT-MW303I2-01192012RE1			BPS1-TT-MW303S-01232012			BPS1-TT-MW303S-01232012RE1		
	LAB_ID	1201254-06			1201254-06RE1			1201310-03			1201310-03RE1		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U					0.08	U					
AROCLOR-1248				2.4						0.21			
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW304D-01192012			BPS1-TT-MW304D-01192012RE1			BPS1-TT-MW306D-01232012			BPS1-TT-MW306D-01232012RE1		
	LAB_ID	1201254-05			1201254-05RE1			1201310-02			1201310-02RE1		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	U					0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U								0.61	J	U	
AROCLOR-1248				4.2			0.08	U					
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					

PROJ_NO: 02230 SDG: 50063-13 FRACTION: PCB MEDIA: WATER	NSAMPLE	BPS1-TT-MW306I-01232012			BPS1-TT-MW306I-01232012RE1			BPS1-TT-MW306S-01232012			BPS1-TT-MW306S-01232012RE1		
	LAB_ID	1201310-04			1201310-04RE1			1201310-07			1201310-07RE1		
	SAMP_DATE	1/23/2012			1/23/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
AROCLOR-1016	0.08	UJ	D				0.08	U					
AROCLOR-1221	0.08	U					0.08	U					
AROCLOR-1232	0.08	U					0.08	U					
AROCLOR-1242	0.08	U					0.08	U					
AROCLOR-1248				1.8						0.54			
AROCLOR-1254	0.08	U					0.08	U					
AROCLOR-1260	0.08	U					0.08	U					
AROCLOR-1262	0.08	U					0.08	U					
AROCLOR-1268	0.08	U					0.08	U					



Tetra Tech

INTERNAL CORRESPONDENCE

TO: R. SOK **DATE:** March 28, 2012
FROM: MEGAN CARSON **COPIES:** DV FILE
SUBJECT: INORGANIC DATA VALIDATION- TOTAL CALCIUM, CHROMIUM, IRON, AND SODIUM, AND FILTERED CHROMIUM AND IRON, TOC, AND HEXAVALENT CHROMIUM
NWIRP BETHPAGE, CTO WE44
SDG 50063-13

SAMPLES: 20/Water/
BPS1-Dup03-01192012 BPS1-Dup04-01232012
BPS1-FB02-01232012 BPS1-FW-MW01-01192012
BPS1-FW-MW03-01192012 BPS1-HN-MW29I-01192012
BPS1-RB02-01232012 BPS1-TT-MW301D-01232012
BPS1-TT-MW302D-01202012 BPS1-TT-MW302I1-01202012
BPS1-TT-MW302I2-01202012 BPS1-TT-MW302S-01202012
BPS1-TT-MW303D-01192012 BPS1-TT-MW303I1-01192012
BPS1-TT-MW303I2-01192012 BPS1-TT-MW303S-01232012
BPS1-TT-MW304D-01192012 BPS1-TT-MW306D-01232012
BPS1-TT-MW306I-01232012 BPS1-TT-MW306S-01232012

Overview

The sample set for NWIRP Bethpage, SDG 50063-13, consists of eighteen (18) aqueous samples, one field blank, and one rinsate blank. This SDG contained two field duplicate pairs: BPS1-Dup03-01192012/BPS1-HN-MW29I-01192012 and BPS1-Dup04-01232012/BPS1-TT-MW303S-01232012.

All samples (except BPS1-TT-MW301D-01232012) were analyzed for total chromium and iron. Samples BPS1-HN-MW29I-01192012 and BPS1-TT-MW302D-01202012 were analyzed for total calcium and sodium. Sample BPS1-TT-MW303I1-01192012 was analyzed for filtered chromium and iron. Samples BPS1-FB02-01232012, BPS1-RB02-01232012, BPS1-TT-MW301D-01232012, BPS1-TT-MW303I2-01192012, BPS1-TT-MW306I-01232012, and BPS1-TT-MW306S-01232012 were analyzed for hexavalent chromium. Samples BPS1-TT-MW306D-01232012, BPS1-TT-MW306I-01232012, and BPS1-TT-MW306S-01232012 were analyzed for total organic carbon (TOC). The samples were collected by Tetra Tech on January 19th, 20th, 23rd, 2012 and analyzed by Trimatrix Laboratories. Iron, calcium, and sodium analyses were conducted using method 6010C. Chromium analyses were conducted using method 6020A. TOC analyses were conducted using standard method 5310C. Hexavalent chromium analyses were conducted using method 7196A.

These data were evaluated based on the following parameters:

- * • Data Completeness
- * • Holding Times
- * • Initial and Continuing Calibration Verification Results
- * • Laboratory Method / Preparation Blank Analyses
- * • ICP Interference Results
- * • Matrix Spike / Matrix Spike Duplicate Recoveries
- Field Duplicate Precision

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- * • Laboratory Duplicate Results
- * • Laboratory Control Standard Results
- * • ICP Serial Dilution Results
- * • Detection Limits
- * • Analyte Quantitation

Metals:

Field duplicate pair BPS1-Dup04-01232012/BPS1-TT-MW303S-01232012 had a difference > 4X LOQ for iron. The iron results for the sample pair were qualified as estimated (J). No further validation action was warranted as the other field duplicate pair in the SDG was within quality control limits.

Hexavalent Chromium:

All sample results were within quality control limits.

Notes

Positive results greater than the detection limit (DL) but less than the limit of quantitation (LOQ) were qualified as estimated (J).

The matrix spike and matrix spike duplicate of sample BPS1-TT-MW306I-01232012 for hexavalent chromium for batch 1201753 had a relative percent difference (RPD) > 20%. The percent recoveries for the matrix spike and matrix spike duplicate were within quality control limits. No validation action was warranted based on the RPD non-compliances alone.

The field duplicate sample BPS1-Dup03-01192012 was not analyzed for calcium and sodium because it was not marked for analysis on the chain of custody record. The original sample BPS1-HN-MW29I-01192012 was analyzed for calcium and sodium. No action was taken but this item is noted because a comparison of the results for field duplicate precision could not be conducted.

Executive Summary

Laboratory Performance: None.

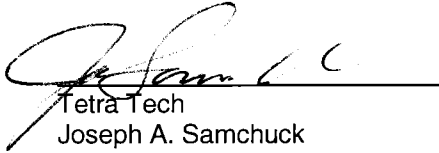
Other Factors Affecting Data Quality: Field duplicate imprecision was noted for iron in the sample pair BPS1-Dup04-01232012/BPS1-TT-MW303S-01232012. Iron results in the affected pair were qualified as estimated.

The data for these analyses were reviewed with reference to the U.S. EPA Region II "Validation of metals for the Contract Laboratory Program based on SOW ILMO5.3 (SOP Revision 13)", September 2006 and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories", April 2009.

The text of this report has been formulated to address only those problem areas affecting data quality.


Tetra Tech
Megan Carson
Chemist/Data Validator

To: R. Sok
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3/28/2012



Tetra Tech

Joseph A. Samchuck
Quality Assurance Officer
Attachments:

1. Appendix A - Qualified Analytical Results
2. Appendix B - Results as reported by the Laboratory
3. Appendix C - Region II Worksheets
4. Appendix D - Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Qualifier Codes:

- A = Lab Blank Contamination
- B = Field Blank Contamination
- C = Calibration Noncompliance (i.e., % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
- C01 = GC/MS Tuning Noncompliance
- D = MS/MSD Recovery Noncompliance
- E = LCS/LCSD Recovery Noncompliance
- F = Lab Duplicate Imprecision
- G = Field Duplicate Imprecision
- H = Holding Time Exceedance
- I = ICP Serial Dilution Noncompliance
- J = ICP PDS Recovery Noncompliance; MSA's $r < 0.995$
- K = ICP Interference - includes ICS % R Noncompliance
- L = Instrument Calibration Range Exceedance
- M = Sample Preservation Noncompliance
- N = Internal Standard Noncompliance
- N01 = Internal Standard Recovery Noncompliance Dioxins
- N02 = Recovery Standard Noncompliance Dioxins
- N03 = Clean-up Standard Noncompliance Dioxins
- O = Poor Instrument Performance (i.e., base-time drifting)
- P = Uncertainty near detection limit ($< 2 \times$ IDL for inorganics and $<$ CRQL for organics)
Other problems (can encompass a number of issues; i.e. chromatography, interferences, etc.)
- Q = etc.)
- R = Surrogates Recovery Noncompliance
- S = Pesticide/PCB Resolution
- T = % Breakdown Noncompliance for DDT and Endrin
- U = RPD between columns/detectors $>40\%$ for positive results determined via GC/HPLC
- V = Non-linear calibrations; correlation coefficient $r < 0.995$
- W = EMPC result
- X = Signal to noise response drop
- Y = Percent solids $<30\%$
- Z = Uncertainty at 2 sigma deviation is less than sample activity
- Z1 = Tentatively Identified Compound considered presumptively present
- Z2 = Tentatively Identified Compound column bleed

PROJ_NO: 02230 SDG: 50063-13 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-Dup03-01192012			BPS1-Dup04-01232012			BPS1-FB02-01232012			BPS1-FW-MW01-01192012		
	LAB_ID	1201254-09			1201310-09			1201310-08			1201254-03		
	SAMP_DATE	1/19/2012			1/23/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF	BPS1-HN-MW29I-01192012			BPS1-TT-MW303S-01232012								
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CALCIUM													
CHROMIUM	5.2			4.2			0.79	J	P	4.4			
IRON	93			210	J	G	320			860			
SODIUM													

PROJ_NO: 02230 SDG: 50063-13 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-FW-MW03-01192012			BPS1-HN-MW29I-01192012			BPS1-RB02-01232012			BPS1-TT-MW302D-01202012		
	LAB_ID	1201254-04			1201254-02			1201310-06			1201287-03		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/20/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CALCIUM				24000						8000			
CHROMIUM	4.6			5.5			0.5	U		2.3			
IRON	110			83			12	J	P	75			
SODIUM				7800						24000			

PROJ_NO: 02230 SDG: 50063-13 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW302I1-01202012			BPS1-TT-MW302I2-01202012			BPS1-TT-MW302S-01202012			BPS1-TT-MW303D-01192012		
	LAB_ID	1201287-04			1201287-05			1201287-02			1201254-08		
	SAMP_DATE	1/20/2012			1/20/2012			1/20/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CALCIUM													
CHROMIUM	1.4			5.1			0.63	J	P	5.3			
IRON	34			59			22			520			
SODIUM													

PROJ_NO: 02230 SDG: 50063-13 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW303I1-01192012			BPS1-TT-MW303I2-01192012			BPS1-TT-MW303S-01232012			BPS1-TT-MW304D-01192012		
	LAB_ID	1201254-07			1201254-06			1201310-03			1201254-05		
	SAMP_DATE	1/19/2012			1/19/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CALCIUM													
CHROMIUM	5.8			2.4			2.7			4.5			
IRON	6000			69			66	J	G	160			
SODIUM													

PROJ_NO: 02230 SDG: 50063-13 FRACTION: M MEDIA: WATER	NSAMPLE	BPS1-TT-MW306D-01232012			BPS1-TT-MW306I-01232012			BPS1-TT-MW306S-01232012		
	LAB_ID	1201310-02			1201310-04			1201310-07		
	SAMP_DATE	1/23/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
CALCIUM										
CHROMIUM	1.2			2.3			1.3			
IRON	77			93			310			
SODIUM										

PROJ_NO: 02230	NSAMPLE	BPS1-TT-MW303I1-01192012		
SDG: 50063-13	LAB_ID	1201254-07		
FRACTION: MF	SAMP_DATE	1/19/2012		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER	RESULT	VQL	QLCD	
CHROMIUM	0.23	J	P	
IRON	70			

PROJ_NO: 02230 SDG: 50063-13 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPS1-FB02-01232012			BPS1-RB02-01232012			BPS1-TT-MW301D-01232012			BPS1-TT-MW303I2-01192012		
	LAB_ID	1201310-08			1201310-06			1201310-05			1201254-06		
	SAMP_DATE	1/23/2012			1/23/2012			1/23/2012			1/19/2012		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM	0.5	J	P	1	U		86			1	U		
TOTAL ORGANIC CARBON													

PROJ_NO: 02230 SDG: 50063-13 FRACTION: MISC MEDIA: WATER	NSAMPLE	BPS1-TT-MW306D-01232012			BPS1-TT-MW306I-01232012			BPS1-TT-MW306S-01232012		
	LAB_ID	1201310-02			1201310-04			1201310-07		
	SAMP_DATE	1/23/2012			1/23/2012			1/23/2012		
	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	
HEXAVALENT CHROMIUM				1	U		1	U		
TOTAL ORGANIC CARBON	1100			3300			710	J	P	

Appendix E
SAP Addendum

**SAMPLING AND ANALYSIS PLAN ADDENDUM
ADDITIONAL GROUNDWATER INVESTIGATION
SITE 1 – FORMER DRUM MARSHALLING AREA
NAVAL WEAPONS INDUSTRIAL RESERVE PLANT (NWIRP) BETHPAGE
BETHPAGE, NEW YORK**

INTRODUCTION

This Work Plan Addendum has been prepared for the Mid-Atlantic Division of the Naval Facilities Engineering Command (NAVFAC) under Contract Task Order (CTO) WE44 issued by the Mid-Atlantic Division of NAVFAC under the Comprehensive Long-Term Environmental Action Navy (CLEAN) III contract number N62470-08-D-1001. This document is an addendum to the May 2010 Sampling and Analysis Plan (SAP) PCB Investigation (herein referenced as the SAP) and the July 2011 Interim Data Summary Report at Site 1 – Former Drum Marshalling Area. This SAP addendum addresses the installation of additional monitoring wells to further investigate potential upgradient sources and the extent of PCB- and hexavalent chromium-contaminated groundwater north of Site 1.

SCOPE AND OBJECTIVE

A total of eight monitoring wells will be installed at five locations during this additional groundwater investigation. Shallow water table monitoring wells will be installed at each location and three of the five well locations will include an intermediate monitoring well (approximately 180 feet bgs.) as presented on Figure 1. Split spoon samples and gamma logging will be used to interpret lithology at each of the proposed monitoring well locations and determine actual well screen intervals. The objective is to further investigate and evaluate PCB- and hexavalent chromium-contaminated groundwater north of Site 1, the former NWIRP recharge basins, and former sludge drying beds and also assess potential upgradient sources (i.e., former Grumman recharge basins as depicted on Figure 1). After well installation, groundwater samples will be collected from the new and existing monitoring wells and analyzed for volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), total chromium, and hexavalent chromium to further evaluate impacts to groundwater. Groundwater investigative activities will be conducted in accordance with the procedures outlined in the SAP. Results from these additional investigative activities will be evaluated and presented in a data summary report to support future remedy evaluations and determine whether Site 1 is a statistically significant source of PCBs detected in groundwater.

SOIL BORINGS

Soil borings will be advanced via hollow stem auger (HSA) drilling methods at each monitoring well location/cluster. Each soil boring will be advanced to a depth of approximately 70 feet below ground surface (bgs) at each shallow well location and to approximately 200 feet at each intermediate well location. Lithology will be obtained at each soil boring via split spoons at select intervals and gamma logging from the total depth to the ground surface. The split spoon samples and gamma logs will be used to determine the actual screened intervals for monitoring well installation at each location.

MONITORING WELL INSTALLATION

Eight monitoring wells will be installed via HSA drilling methods at the locations presented on Figure 1. Five monitoring wells will be installed along Aerospace Boulevard on former Navy property (BPS1-TT-MW310S, -MW311S, -MW311I, -MW312S, and -MW312I). Pending a Navy access agreement, one shallow monitoring well will be installed northeast of the recharge basins (BPS1-TT-MW313S). Two monitoring wells, shallow and intermediate, will be installed approximately 100 feet east of the southeastern recharge basin (BPS1-TT-MW314S and -MW314I). The monitoring wells will be used to further define the extent of upgradient PCB- and hexavalent chromium-contaminated groundwater and also help determine whether other upgradient sources may be contributing to contamination detected upgradient of Site 1. Table 1 provides a summary of estimated screened intervals for the monitoring well installation. Each monitoring well will be developed prior to groundwater sampling.

Soil cuttings and/or fluids generated from the soil boring and monitoring well installations will be field screened for evidence of contamination (visual staining or elevated photoionization detector [PID] readings >10 parts per million [ppm]). If contamination is suspected, those soils will be segregated and characterized for disposal. All soil cuttings will be containerized in 55-gallon drums or roll off containers, sampled, and managed as Investigation Derived Waste (IDW).

GROUNDWATER SAMPLING



Groundwater samples will be collected from each new and existing monitoring well and sampled for VOCs, PCBs, total chromium, and hexavalent chromium as presented in Table 1. Three additional monitoring wells (BPS4-AOC22-MW05, -MW06, and -MW10) from AOC22/Site 4 will be included in this sampling event to help characterize the shallow groundwater west of the

existing downgradient monitoring wells. A submersible pump (e.g. Grundfos) will be utilized for groundwater sampling and low flow procedures will be followed as outlined in the SAP. Wellhead parameters including pH, temperature, specific conductivity, oxygen reduction potential, turbidity, and dissolved oxygen will be collected during sampling and allowed to stabilize prior to sample collection. Based on the good correlation between field test kits and laboratory confirmatory samples for hexavalent chromium, field test kits will be utilized along with laboratory confirmation samples for hexavalent chromium during this sampling event.

All fluids generated during decontamination procedures and purge water obtained during well installation, development, and sampling will be containerized in a poly tank or Frac tank, sampled, and be managed as IDW.



Legend

-  Monitoring Well Proposed
-  Existing Monitoring Well



**Proposed Monitoring Well Location Map
Site 1-Former Drum Marshalling Area
NWIRP Bethpage
Bethpage, New York**

FILE	112G02230	SCALE	AS NOTED
FIGURE NO.	FIGURE 1	DATE	8/27/12
		REV	

TABLE 1
SAP ADDENDUM MONITORING WELL INSTALLATION AND SAMPLING
SITE 1 - FORMER DRUM MARSHALLING AREA
NWIRP BETHPAGE, NEW YORK

Activity	Sample Point ID	Screened Interval (feet bgs)	Sample Analysis	Activity Details
Monitoring Well Sampling	TTAOC22-MW05	47-67	TCL VOCs, PCBs, Total Chromium Hexavalent Chromium	AOC22/Site 4 Wells added to sampling
	TTAOC22-MW06	52-62		AOC22/Site 4 Wells added to sampling
	TTAOC22-MW10	49-59		AOC22/Site 4 Wells added to sampling
	BPS1-FW-MW01	48.5-63.5 ¹		Site 1 monitoring well network
	BPS1-FW-MW02	49-64 ¹		Site 1 monitoring well network
	BPS1-FW-MW03	52-67 ¹		Site 1 monitoring well network
	BPS1-HN-MW29I	120-130 ²		Site 1 monitoring well network
	BPS1-TT-MW301S	51-61		Site 1 monitoring well network
	BPS1-TT-MW301I	130-140		Site 1 monitoring well network
	BPS1-TT-MW301D	210-220		Site 1 monitoring well network
	BPS1-TT-MW302S	41-51		Site 1 monitoring well network
	BPS1-TT-MW302I1	110-120		Site 1 monitoring well network
	BPS1-TT-MW302I2	140-150		Site 1 monitoring well network
	BPS1-TT-MW302D	203-213		Site 1 monitoring well network
	BPS1-TT-MW303S	46-56		Site 1 monitoring well network
	BPS1-TT-MW303I1	95-105		Site 1 monitoring well network
	BPS1-TT-MW303I2	146-156		Site 1 monitoring well network
	BPS1-TT-MW303D	208-218		Site 1 monitoring well network
	BPS1-TT-MW304S	43-53		Site 1 monitoring well network
	BPS1-TT-MW304I1	102-112		Site 1 monitoring well network
	BPS1-TT-MW304I2	140-150		Site 1 monitoring well network
	BPS1-TT-MW304D	180-190		Site 1 monitoring well network
	BPS1-TT-MW305S	40-50		Site 1 monitoring well network
	BPS1-TT-MW305I	190-200		Site 1 monitoring well network
	BPS1-TT-MW305D	286-296		Site 1 monitoring well network
	BPS1-TT-MW306S	50-60		Site 1 monitoring well network
	BPS1-TT-MW306I	189-199		Site 1 monitoring well network
	BPS1-TT-MW306D	284-294		Site 1 monitoring well network
	BPS1-TT-MW307S	40.5-50.5		Site 1 monitoring well network
	BPS1-TT-MW307I	188-198		Site 1 monitoring well network
BPS1-TT-MW307D	276-286	Site 1 monitoring well network		
BPS1-TT-MW308S	54-64	Site 1 monitoring well network		
BPS1-TT-MW308I	156-166	Site 1 monitoring well network		
BPS1-TT-MW308D	250-260	Site 1 monitoring well network		
BPS1-TT-MW309S	53-63	Site 1 monitoring well network		
BPS1-TT-MW309I	160-170	Site 1 monitoring well network		
BPS1-TT-MW309D	252-262	Site 1 monitoring well network		
Proposed Monitoring Well Installation and Sampling	BPS1-TT-MW310S	60-70 ¹	TCL VOCs, PCBs, Total Chromium Hexavalent Chromium	Shallow well to be screened across water table.
	BPS1-TT-MW311S	60-70 ¹		Shallow well to be screened across water table.
	BPS1-TT-MW311D	160-170 ¹		Intermediate well to be screened based on lithology.
	BPS1-TT-MW312S	60-70 ¹		Shallow well to be screened across water table.
	BPS1-TT-MW312I	160-170 ¹		Intermediate well to be screened based on lithology.
	BPS1-TT-MW313S	60-70 ¹		Shallow well to be screened across water table.
	BPS1-TT-MW314S	60-70 ¹		Shallow well to be screened across water table.
BPS1-TT-MW314I	160-170 ¹	Intermediate well to be screened based on lithology.		

Notes:

MW - Monitoring Well

NA - Not Applicable

TCL VOCs - Target Compound List Volatile Organic Compounds

PCBs - Polychlorinated Biphenyls

bgs - below ground surface

¹ - Estimated screen intervals, actual depths to be determined based on lithology

Quality Control/Quality Assurance samples will consist of the following:

- 10% Duplicate
- 5% MS/MSD
- Field Blank
- Rinsate Blank